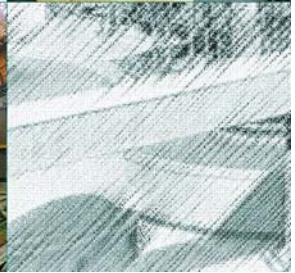


**REFERENCE LIST
ASIX**

ASKOM



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KRS	0000125971, Regional Cort Gliwice
Tax Identification No.	648-00-11-359
Board of Directors	President dr inż. Marian Konsek Vice-president mgr inż. Aleksander Rybarek
Stock capital	158 000,- zł

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A. MES PRODUCTION MANAGEMENT SYSTEMS						
1	Philips Lighting Poland	Plant data acquisition, monitoring and control of energy media	Entire plant	4 x S7-400, PROFIBUS network, 2 x WAGO I/O, Ethernet network, 6 x ASIX data process server, 7 x ASIX terminal in local network, interfaces to: DATAPAF, MacBAT, MegaMUZ, SOCOMEC, DIRIS A20, DIRIS A40, MACMAT, GE Fanuc controllers	ASKOM	2000-2007
2	SGL Carbon Racibórz	Tracing & Tracking system for Stamping plant and Coal-milling plant	Stamping plant and Coal-milling plant	SIMATIC S7-300, engineering station, 2 x ASIX operator servers, PROFINET network	ASKOM	2005-2006
3	Nitric Plant Kędzierzyn plc	System of energy balance	Media monitoring	16 x Beckhoff CX1000, ASIX server, 12 x ASIX terminals	ASKOM	2005
4	SGL Carbon Racibórz	Stamping plant and Coal-milling plant - extension by recipe system for weighing node	Weighing node	Industrial Ethernet network, extension of fiber optic network. Application of AsBase of ASIX system for receipts	ASKOM	2005
5	Power Plant Blachownia	Power Plant	Supervisory room	Technological data server of boilers 2,3,5,6,7; turbines 1 i 2; two coking gas nodes (MacMat)	ASKOM	2004
6	Power Plant Blachownia	Plant computer network	Plant computer network	Computer network making available in unified manner the whole plant data originated at: boilers computer control system (ASIX based), turbo generator computer control system (ASIX and TELEPERM based) and KRAKATAU system aimed at energy production measurements (by Winuel)	ASKOM	2001
7	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Supervisory system of heat distribution	Thermal Power Plant, Technological Departments	Circa 50 measurements of steam and water flow; heat balance calculation and reporting; balance sheet accessed in Intranet	ASKOM	2001
8	Thermal Power Plants Complex "EC Warszawskie S.A."	OPC Server for ASIX	Thermal power plants: Siekierki, Żerań, Wola	AsixConnect OPC server supplying Supervisory Dispatcher System with data gathered over TCP/IP Ethernet network from three remote - ASIX based - systems.	ASKOM	2001
9	Thermal Power Plant EC WOLA - Warszawa	Plant data acquisition and emission monitoring	The whole plant	SIMATIC S7-400 in distributed configuration based on WAGO I/O remote stations, linked to 2 x ASIX operator stations	ASKOM	2000

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No	Customer	Process	Object	System	Realisation	Date
10	Power Plant Rybnik	Computer network integrating control systems of power units (WDPF), control system of desulphurization plants (SIMATIC), emission visualization stations (TALAS H-B), control system of coal feeding (SIMATIC), and special measurements (Bently-Nevada)	The whole power plant	10 PC servers and ca .20 - 30 PC LAN workstations	ASKOM	2000
11	Power Plant Bełchatów plc	System of data visualization and archiving for power units; data retrieved from CAMAC and MASTER systems	Power units 1 to 12	System covers 6 power units control rooms (1 control room supports 2 power units); in control room 4 x ASIX operator stations equipped with 3 CRT monitors each, one engineering PC station , one station of power unit manager, and data server supplying all data (ca. 2.500 per unit) to plant network (ca. 100 PC stations)	ASKOM	2000
12	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Integration of production control and supervisory systems into plant network	The whole plant	2 x PC data servers supplying over 16.000 data to ca. 50 PC stations on plant network (based on "site license"); e.g. data from bicarbonate whirl plant, 3 calciners, 5 boilers, lime furnaces, carbonization process, cooling water installation, installation of RH-CD distillation gas cooling	ASKOM	2000
13	SIPMA S.A. Lublin	Supervisory system of energy consumption (water, heat energy, electric power)	---	I/O modules ADAM 4000 (11 pcs) energy counters MCom-1 (14 szt), ASIX operator station, terminal station	SIM Lublin	1997
B. FOOD INDUSTRY						
14	NOMAX Co. Ltd.	Control and supervisory system for industrial air conditioning and production line of sausage collagen sheathes	press-forming and drying line of collagen sheathes	2 x SIMATIC S7 - 300, ET200S stations, connection to plant Industrial Ethernet network with operator panels and ASIX operator stations	ASKOM	2006 - 2007
15	Kraft Foods Poland Co. Ltd.	Supervisory system of dough pouring out for 5 ovens of baking wafers	5 ovens for baking wafers	5 x S7-200 with TP170B panel	ASKOM	2007
16	Kraft Foods Poland Co. Ltd.	Study of guidelines for chocolate transport supervisory system	Production lines SWAKT 104, SWAKT 96, SWAK 72, SWAKT 2 x 48	S7-300 controller, 3 x ET200S stations, Profibus network, 6 x OP77A panel, Beckhoff operator panel with ASIX system, ASIX terminal in control quality laboratory	ASKOM	2007

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No	Customer	Process	Object	System	Realisation	Date
17	Mokate Żory	Modernization of the receipe system in powder mixing line	Powder mixing line	ASIX data server, 2 x ASIX operator panels based on Beckhoff 19" LCD unit , Industrial Ethernet link to FESTO controllers, and SAP system, 2 x ASIX terminals in plant network	ASKOM	2007
18	NOMAX Co. Ltd.	Control and supervisory system for chemical installation of animal proteins acidification	installation of protein acidification	2 x S7-300, Beckhoff operator panel, 2 x ASIX operator stations	ASKOM	2005-2006
19	Kraft Foods Poland Co. Ltd.	Modernization of the control system of packaging machine	Wafers packing machine	SIMATIC S7-300, OP7 operator panel	ASKOM	2006
20	Elite Cafe Co., Ltd.	System of visualization for ground coffee transport	visualizaton of ground coffee transport	ASIX operator stations, Profibus network	ASKOM	2005
21	Elite Cafe Co. Ltd.	Coffee preparation line control system	Coffee preparation line	Simatic S7-416, 2 x ASIX operator stations, Profibus network	ASKOM	2004
22	SOKOŁÓW S.A. Branch House Jarosław	HACCP process monitoring and data logging	Installation for pigs knocking out	GE Fanuc controllers, transducers. LG controller and touch panel	ZHU VISAT	2004
23	Kraft Foods Poland Co. Ltd.	Raw material batching and weighing for dough production and detection of damaged wafers	Dough line	SIMATIC S7-300, OP7/DP panel, TP170B operator panel, extension of existing visualization	ASKOM	2004
24	ZPOW Hortex Przysucha	System for visualization and archiving data of juice pasteurizer	Pasteurizer	Simatic S7-300, 1 OP, MPI network	OBRAM	2004
25	Brewery Poznanń DOJLIDY Białystok	Control and supervisory system for washing line	Washing station	Simatic S7-300, 1 OP, MPI network	OBRAM	2004
26	Arla Foods Gościna	Control and supervisory system for washing line	Washing station	Simatic S7-300, 1 OP, MPI network	OBRAM	2004
27	Kraft Foods Poland Co. Ltd.	Dough line washing control system	3 lines	Simatic S7-400, WAGO distributed I/O system, 3 OP panels, ASIX operator station	ASKOM	2003
28	UNILEVER Katowice	Visualization of tee production line	Hall 4	7 x Omron CQM1H, RS422 network, ASIX operator station	HASO	2003
29	SOKOŁÓW S.A. Branch House Jarosław	Supervisory and control system	The whole plant	Vortex flow meters, heat meters Danfoss, heat meters Simex, electricity meters Landis, LG controller	ZHU VISAT	2003
30	LU Polska Branch House Jarosław	Data processing, accounting and balancing of energy consumption	The whole plant	Electricity meters Pafal, LG controllers. data processing in Excel spreadsheet, accounting and balancing	ZHU VISAT	2003

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No	Customer	Process	Object	System	Realisation	Date
31	SOKOŁÓW S.A. Branch House Jarosław	Sterilization process monitoring and recording	Tinned Food Department	LG controllers, Simex transducers. Reporting and data processing in Excel spreadsheet.	ZHU VISAT	2003
32	Riela Polska Sp. z o.o.	Grain Dryer	Grain Dryer	LG controllers (Master-K200 and Master-K300), operator panels IMO	FOSTER	2003
33	FARMUTIL H.S. Śmitowo	Utilization process monitoring system	Feed Production Plant Smitów	extended subnet of SIMPACT controllers linkerd to existing ASIX operator station	SIMEX	2003
34	Slaughterhouse Compan NOWAK	Temperature and humidity monitoring system in production and store rooms	Slaughterhouse Jankowo k/Gdańska	Extended network of TRS transducers (SIMEX) linked to ASIX operator station	SIMEX	2003
35	STRUGA Jezuicka Struga	Utilization process monitoring system	Utilization Plant	SIMPACT controllers subnet linked to ASIX operator station over SRS-4/4 devices	SIMEX	2003
36	Poultry Farm GIL-DROB	Temperature and humidity monitoring system in production and store rooms	Poultry Farm Baldowo k/Tczewa	Network of TRS transducers (SIMEX) linked to ASIX operator station	SIMEX	2003
37	Meat Processing Plant AGRO-HANDEL Mościszki	Temperature and humidity monitoring system in production and store rooms	Meat Processing Plant Mościszki	Network of TRS transducers (SIMEX) linked to ASIX operator station	SIMEX	2003
38	Żywiec Brewery	Gas flow monitoring	Gas Pressure Reduction Station	Flow meter MAC_MAT, ASIX operator station IBM/PC, protocol GAZ_MODEM	μSTER Electronic	2002
39	Tychy Brewery	System of visualization and control of water purification plant	Water Purification Plant	Controllers Siemens S7-200, PPI	MEGAM	2002
40	Slaughterhouse Company NOWAK	Computer monitoring system of temperature and humidity in production-shop and store	Slaughterhouse	Network of 28 transducers TRS and SIMPACT controllers, ASIX operator station	SIMEX	2002
41	Slaughterhouse Company Dobrowolscy Wadowice Górne k.Mielca	Visualization system of pigs stunning	Slaughterhouse	Controller GE Fanuc Micro, communication based on MODBUS protocol	ZHU VISAT	2002
42	Confectionery Company "SAN" Jarosław	Visualization system of heat power production including heat consumption settlement	Gas Boiler House	Flow computer - Metronic, communication based on MODBUS protocol	ZHU VISAT	2002
43	UNILEVER Katowice	Visualization of tee production line	Hall 2	10 x Simatic S7-300, Profibus network, ASIX operator station	HASO	2002
44	SOKOŁÓW S.A. Branch House Tarnów	Control and archiving system of pigs stunning	Installation for pigs knocking out	GE Fanuc controller	ZHU VISAT	2002
45	LU Polska Branch House Jarosław	Gas boiler monitoring	Boiler House	Vortex flow meters, heat meters METRONIC, 16-channel data logger, flow calculator MACBAT	ZHU VISAT	2002

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No	Customer	Process	Object	System	Realisation	Date
46	Z.P.P KEMOS Białystok	Utilization process monitoring system	Feed Production Plant KEMOS, Suwałki	SIMPACT controllers subnet linked to ASIX operator station over SRS-4/4 devices	SIMEX	2002
47	Kraft Foods Poland Co. Ltd.	Plant data acquisition system	Plant "OLZA" at Cieszyn	Central unit SIMATIC S7-400, 5 x data concentrators based upon WAGO I/O stations with local OP-7, PROFIBUS DP network , 1x ASIX server station, 7 ASIX terminals over plant Ethernet network	ASKOM	2001
48	KANDY	Washing station	---	SAIA PCD2.M127, 1 x OP7	BIOSTAL	2001
49	UNILEVER Katowice	Visualization system of tea bags production line	Line No.6	20 x Simatic S7-300, Profibus network, ASIX operator station, data export to EXCEL	HASO	2001
50	UNILEVER Katowice	Visualization system of tea bags production line	Line No. 5	11 x Simatic S7-300, Profibus network, operator station ASIX, data export to EXCEL	HASO	2001
51	Łomża Brewery	System of visualization and control of water purification plant	Water Purification Plant	Controllers Siemens S7-200, protocol PPI	MEGAM	2001
52	Agricultural Company FARMUTIL H.S. Śmiłowo	Computer monitoring system of utilization process	Utilization plant	Two sub networks of SIMPACT controllers (tot. 28 pcs.) connected to operator station ASIX by two concentrators SRS4/4	SIMEX	2001
53	Creamery Zielona Budka	Washing station	Washing station	SIMATIC: 2 x S7-314, 1 x S7-412, 1 x S7-413, 4 x OP7, 1 x OP17	BIOSTAL	2000
54	SOKPOL	Washing station	Washing station	SIMATIC: 1 x S7-412, 1 x OP17	BIOSTAL	2000
55	Warka Brewery	Control system of sewage collection unit	Sewage Purification Plant	Flow meter ENKO connected to operator station by serial interface (protocol MODBUS RTU)	ENKO	1999
56	ZPOW Hortex Siemiatycze	Steam boiler supervisory system	Boiler House	ADAM I/O modules (ADVANTECH), ASIX operator station	APS	1998
C. DAIRIES						
57	Dairy in Biała Cerkiew - Ukraine (co-operation OBRAM)	Control and supervisory system for the dairy installation	Dairy Plant	2 x S7-400, INDUSTRIAL ETHERNET network, 12 x ASIX operator panels , 2 x data servers, 2 x ASIX operator terminals	ASKOM	2007-2008

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No	Customer	Process	Object	System	Realisation	Date
58	Dairy Dubna Ukraine (co-operation OBRAM)	Supervisory and control system for milk, whey and brine installations	Dairy Plant	2 x SIMATIC S7 400 controllers connected via INDUSTRIAL ETHERNET with 8 x ASIX operator panels and supervisory system equipped with 2 x ASIX redundant data servers and 1 x ASIX operator terminal	ASKOM	2007 - 2008
59	Dairy in Kaniew - Ukraine (co-operation OBRAM)	Software control system for the dairy in Kaniew	Dairy Plant	SIMATIC S7-400 controller, 3 x OP177B operator panels, ASIX operator station	ASKOM	2007
60	Dairy Romfulda Romania	Supervisory and control system for the dairy in Romfulda, Romania	Dairy Plant	S7-400 PLC, 7 x TP177A operator panels (WinCC Flexible system) , ASIX based operator station	ASKOM	2007
61	Dairy in Kaniew - Ukraine (co-operation OBRAM)	Supervisory control system for the dairy	Pasteurizers Washing station	Simatic S7-300, Profibus network, OP177B and MP370 operator stations, ASIX SCADA server, ASIX operator terminal	ASKOM	2007
62	Dairy SM "MLEKOWITA"	Milk buffer tanks visualization	Mill tanks	Extension of control and supervisory system for mill tanks visualization	ASKOM	2005
63	Dairy OSM Inowrocław	Visualization and archiving system of 3 pasteurizers	Pasteurizers	Simatic S7-400, ASIX operator station	ASKOM	2004
64	Dairy ZM Mława	Visualization and archiving system of washing station	Washing station	Simatic S7-400, ASIX operator station	ASKOM	2004
65	Dairy MSM Mońki	Visualization and archiving system for cream and milk pasteurizer	Pasteurizers	Simatic S7-400, ASIX operator station	ASKOM	2004
66	Dairy Swiętłowod Ukraine	Control and supervisory system for raw milk tanks and storage bin	Cheese making line	2xSIMATIC S7-400, 4 operator panels OP170B, 1 ASIX operator station	ASKOM	2004
67	Dairy SM "SOMLEK" Sokółka Dąbrowa Białostocka (co-operation OBRAM Olsztyn)	Visualization and archiving system for washing line, milk and cream pasteurizer	Pasteurizers, washing station	Simatic S7-400, ASIX operator station	ASKOM	2004
68	Dairy Swiętłowod Ukraine (co-operation OBRAM Olsztyn)	Archiving system of cheese diary line parameters	Cheese making line	2xSIMATIC S7-400, 4 operator panels OP170B, ASIX operator station	ASKOM	2004
69	Dairy SM Ciechanów	Visualization and archiving system of washing station	Washing station	Simatic S7-400, ASIX operator station	ASKOM	2004
70	Dairy OSM Sokółów Podlaski (co-operation OBRAM Olsztyn)	Visualization and archiving system of two pasteurizers	Pasteurizers	Simatic S7-400, ASIX operator station	ASKOM	2004
71	Dairy MSM Ostrowia - Ostrów Mazowiecki	Visualization and archiving system of cream pasteurizer	Pasteurizer	Simatic controller S7-400, ASIX operator station	ASKOM	2004
72	Dairy Kaniew Ukraine	Control and supervisory system for cheese diary line	Cheese making line	Simatic S7-400 controller, 3 operator panels OP170B, ASIX operator station	ASKOM	2004

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No	Customer	Process	Object	System	Realisation	Date
73	Creamery Piątница	Visualization and control system for water treatment plant	Water treatment plant	Simatic S7-200 controller, converter Vacon	MEGAM	2004
74	Powdered Milk Factory Piotrków Kujawski	Visualization and control system for water treatment plant	Water treatment plant	Simatic S7-200 controller, converter Vacon	MEGAM	2004
75	Creamery Łaszczów	Visualization and control system for water treatment plant	Water treatment plant	Simatic S7-200 controller, converter Vacon	MEGAM	2004
76	Creamery Mińsk	System for visualization and archiving data of milk pasteurizer	Pasteurizer	Simatic S7-300, 6 OP, Profibus network	OBRAM	2004
77	Creamery SM MAZOWSZE	System for visualization and archiving data of washing station	Washing station	Simatic S7-300, 6 OP, MPI network	OBRAM	2004
78	Creamery SM "SOMLEK" Sokółka Dąbrowa Białostocka	Control and supervisory system for washing line, milk and cream pasteurizer	Pasteurizer, washing station	3 x Simatic S7-300, 3 OP, MP network cooperation with ASKOM	OBRAM	2004
79	Creamery Swietłowock Ukraine	Control and supervisory system for cheese diary line	Cheese diary line	2 x Simatic S7-400, 20 OP, Profibus network cooperation with ASKOM	OBRAM	2004
80	Creamery OSM Sokołów Podlaski	Control and supervisory system for milk and cream pasteurizer	Pasteurizer	2 x Simatic S7-300, 2 OP, MPI network cooperation with ASKOM	OBRAM	2004
81	Creamery Olsztyn	Control and supervisory system for washing line, milk and cream pasteurizer	Pasteurizer, washing station	3 x Simatic S7-300, 3 OP, MPI network cooperation with ASKOM	OBRAM	2004
82	Creamery Bakoma NOVA Kutno	Control and supervisory system for cheese diary line	Cheese diary line	Simatic S7-300, 4 OP, MPI network	OBRAM	2004
83	Creamery OSM Łask	Control and supervisory system for washing line, milk and cream pasteurizer	Pasteurizer, washing station	3 x Simatic S7-300, 1 OP, MPI network	OBRAM	2004
84	Creamery Elbląg	System for visualization and archiving data of two milk pasteurizers	Pasteurizer	2 x Simatic S7-300, 2 OP, MPI network	OBRAM	2004
85	Creamery MSM Mońki	Control and supervisory system for washing line and cream pasteurizer	Pasteurizer, washing station	2 x Simatic S7-300, 2 OP, MPI network	OBRAM	2004
86	Creamery OSM Siedlce	System for visualization and archiving data of milk pasteurizer	Pasteurizer	2 x Simatic S7-300, 2 OP, MPI network	OBRAM	2004
87	Creamery BROMILK Brodnica	Control and supervisory system for two-ways washing line	Washing station	Simatic S7-300, 1 OP, MPI network	OBRAM	2004
88	Creamery OSM Raciąż	Control and supervisory system for two-ways washing line	Washing station	2 x Simatic S7-300, 2 OP, MPI network	OBRAM	2004
89	Creamery OSM Żuromin	Control and supervisory system for cheese diary line	Cheese diary line	Simatic S7-400, 5 OP, MPI network	OBRAM	2004
90	Creamery ZPH Victoria Cymes Wałcz	Control and supervisory system for washing line	Washing station	Simatic S7-300, 1 OP, MPI network	OBRAM	2004

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No	Customer	Process	Object	System	Realisation	Date
91	Dairy SM "MLEKOWITA"	Data visualization and archivisation for cheese making line	Cheese making line	2 x ASIX servers	ASKOM	2003
92	Dairy SM "Mazowsze"	Data visualization and archivisation for cheese making line	Cheese making line	2 x ASIX servers	ASKOM	2003
93	Dairy OSM Łowicz	Data visualization and archivisation for cheese making line	Cheese making line	2 x ASIX servers	ASKOM	2003
94	Creamery MSM Mońki	Control and supervisory system of whey and milk powder production line	Powdered Milk Dept.	SIMATIC controller S7-400, Profibus network, 2 x ASIX operator station, panel OP17	ARGO S.P.	2002
95	Creamery OSM Filipów	Washing station	Creamery	SAIA PCD2.M137, 1 x OP7	BIOSTAL	2002
96	Creamery OSM Parczew	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2002
97	Creamery BEL POLSKA Chorzele	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2002
98	Creamery OSM OSOWA w Bydgoszczy	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2002
99	Creamery MSM Ostrowia - Ostrów Mazowiecki	Visualization and archiving of pasteurization parameters	Pasteurizer HAACP	SIMATIC controller S7-300, MPI, ASIX operator station	ARGO S.P.	2001
100	Creamery BIOMLEK Chelm	Control and supervisory system of washing station	Washing station	SIMATIC controller S7-300, MPI, ASIX operator station	ARGO S.P.	2001
101	Creamery OSM Skała	Washing station	Creamery	SAIA PCD2.M137, 1 x OP7	BIOSTAL	2001
102	Creamery OSM Końskie	Washing station	Powdered Milk Dept.	SAIA PCD2.M127, 3 x OP7	BIOSTAL	2001
103	Creamery OSM Końskie	Washing station	Creamery	SAIA PCD2.M127, 1 x OP7	BIOSTAL	2001
104	Creamery ALIMA Gerber	Washing station	Creamery	SAIA PCD2.M127, 1 x OP7	BIOSTAL	2001
105	Creamery SM MLEKPOL w Kolnie	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
106	Creamery OSM Biała Podlaska	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
107	Creamery OSM Końskie	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
108	Creamery OSM Głubczyce	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
109	Creamery OSM GOMI Grodków	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
110	Creamery BAT GALAKTON Kijów – Ukraina	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001

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No	Customer	Process	Object	System	Realisation	Date
111	Creamery BAT GALAKTON Kijów – Ukraina	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
112	Creamery DISTAN HORIZON, Brześć-Białoruś	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2001
113	Creamery MSM Ostrowia - Ostrów Mazowiecki	Control and supervision system of leaven production line	Leaven production line	SIMATIC controller S7-300, MPI, ASIX operator station	ARGO S.P.	2000
114	Creamery OSM Gorzów Wielkopolski	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	2000
115	Creamery SM "SOMLEK" Sokółka Dąbrowa Białostocka	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	1999
116	Creamery SM Krasnystaw	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	1999
117	Creamery ICC Pasłęk	Visualization and archiving of pasteurization parameters	Pasteurizer	Simatic controller S7-300, ASIX operator station	OBRAM	1999
D. CHEMICAL INDUSTRY						
118	SGL Carbon Racibórz	Extension of control system for ring furnaces no.1, 5 and 6	Ring furnaces no.1, 5 and 6	Extension of control system for ring furnaces: 2 x SIMATIC S7-400 with ET200S stations, revamping of 2 operator stations, introducing of Industrial Ethernet network between controllers and operator stations	ASKOM	2006 - 2007
119	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Lime-kiln modernization	Kiln no. 3	Extension of existing lime-kiln supervisory system	ASKOM	2007
120	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Control and supervisory system for RG (6kV) switchboard station in Thermal Power Plant EC Kujawy	RG 6kV switchboard station	ASIX two-monitors server, serial interface (RS-485) with MICOM 127, MICOM 923, MICOM 343, MICOM 225 protection devices (Areva producer)	ASKOM	2007
121	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Modernization of the control system of Carbonization Department	Carbonization	7 x Simatic S7-300, WAGO I/O modules, Profibus - DP and Profibus -PA network, 4 x ASIX 4.0 operator stations	ASKOM	2007
122	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Modernization of the control system of Carbonization Department	Carbonization	Conception of control and supervisory system based on SIMATIC controllers, WAGO I/O modules, supervisory system based on ASIX visualization software	ASKOM	2006
123	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Lime-kiln FCH10 modernization	Kilns no 10, 4	Lime-kilns control system extension	ASKOM	2004-2005

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No	Customer	Process	Object	System	Realisation	Date
124	SGL Carbon Racibórz	Control and supervisory system of gas calcinations furnace No.4	gas calcinations furnace No. 4	SIMATIC S7-300, ET-200S stations, 2 x ASIX operator stations, PROFINET network	ASKOM	2005
125	KHANGIRAN Gas Treating Company - Iran (co-operation BIPROKWas)	Control and supervisory system for sulphur forming plant, storage and dispatch transport	Sulphur forming plant	2 x S7-400, ET200M stations, TP170B operator panels, 2 x operator stations ASIX connected by the means of FO Ethernet network	ASKOM	2005
126	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Turbo blowers in filtering plant	Filtering plant	Extension of existing system based on SIMATIC S7-400 and WAGO distributed I/O	ASKOM	2004
127	Siarkopol Chemical Plants	Bag filter control system	Granulation of chemical fertilizer	Simatic S7-300 operator panel OP-7, ASIX operator station	ASKOM	2004
128	SGL Carbon Racibórz	Extension of control systems for graphitization rectifier assemblies	Graphitization rectifier assemblies	3 x Advant PLC's, 2 x ASIX operator stations	ASKOM	2004
129	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Modernization of system for visualization of raw soda installation	RHCD plant	Remote operator servers connected to SIMATIC S7-400 with a fiberglass ring, modernization of existing system	ASKOM	2004
130	OKFENS Czeladź	Visualization and control of PVC mixture production line	Raw Material Department	Simatic S7-300 controller	HASO	2004
131	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Air Compression Station and Steam Pressure Reduction Station	Air Compression Station	SIMATIC S7-400, ET200S and Wago distributed I/O systems, Profibus PA network, communication with 6kV switchgear MUPASZ controller and Atlas Copco compressor controller, 2 ASIX servers	ASKOM	2003
132	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Lime-kiln FCH 9 modernization	Kiln No. 9	Lime-kilns control system extension	ASKOM	2003
133	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Lime milk dosing system	RHCD installation	SIMATIC S7-400 x 2, ASIX operator station	ASKOM	2003
134	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Bicarbonate filters	Bicarbonate filter	SIMATIC S7-400, with ET200S and Wago distributed I/O stations, Profibus PA network, visualization on existing stations	ASKOM	2003
135	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Lime-kiln FCH 11 modernization	Kiln No. 11	Lime-kilns control system extension	ASKOM	2003
136	Chemical Plant "ORGANIKA-SARZYNA" S.A. Nowa Sarzyna	Supervisory and control system	Media monitoring: water, compressed air, nitrogen	measuring equipment with ports RS232, RS485 (MODBUS), RS485/ETHERNET converters, fiber-optic network, 1 operator server, 3 terminal stations	NS Automatyka	2003

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No	Customer	Process	Object	System	Realisation	Date
137	Chemical Plant "ORGANIKA-SARZYNA" S.A. Nowa Sarzyna	Supervisory and control system	Sewage Neutralization Plant	GE Fanuc 90-30 controller, measuring equipment, 1 operator server	NS Automatyka	2003
138	Erg-Profil Czeladź	Visualization and control system of Raw Material Department		2 x Simatic S7-300, 4 x Siwax U, Profibus network, controller Omron, ASIX operator station	HASO	2002
139	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Sodium bicarbonate filters plant	Filter No. 3	Simatic S7-400, WAGO I/O System, 2 x ASIX operator stations , Profibus-PA network	ASKOM	2002
140	OKFENS Czeladź	Visualization and control of PVC mixture production line	Raw Material Department	Simatic S7-300, Profibus network, ASIX operator station	HASO	2002
141	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Engineering and start-up of soda storage-bin control system	Soda storage-bin	SIMATIC S7-300, ASIX operator station	ASKOM	2001
142	SGL Carbon Racibórz	Ring furnace control modernization	Ring furnace	2 x SIMATIC S7-400 , distributed 6 x ET200 I/O stations, 2 x ASIX operator stations	ASKOM	2001
143	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Automation system for soda transport and SHP gas cooling installations	Soda transport	SIMATIC S7-300, SCADA application on operator station in calciner department	ASKOM	2001
144	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Cooling of gas from distillation process	Raw Soda Department	SIMATIC S7-400 with PROFIBUS-PA, 2 x ASIX operator stations, 4-segment network PROFIBUS-PA+D53, integration with superior plant network	ASKOM	2000
145	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Sodium bicarbonate whirl plant	Basket centrifuges	1 x SIMATIC S7-400 distributed system based on PROFIBUS-DP and DP-PA, 2 x ASIX operator servers	ASKOM	2000
146	Petrochemical Companies, IRAN – KHARG	Sulphur granulation (BIPROKWAŚ project)	Sulphur Granulation Plant	Distributed system SIMATIC S7-400 and remote ET200 stations, linked via PROFIBUS to 2 x ASIX operator stations	ASKOM	2000
147	Petrochemical Companies, IRAN – RHAZI	Sulphur granulation (BIPROKWAŚ project)	Sulphur Granulation Plant	Distributed system SIMATIC S7-400 and remote ET200 stations, linked via PROFIBUS to 2 x ASIX operator stations	ASKOM	2000
148	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Control of calcinations installation	3 calciners	4 x SIMATIC S7-300 distributed system interfaced to I/O based on Profibus DP and Profibus DP-PA, 2 x ASIX operator stations and data server for plant network, engineering station	ASKOM	2000
149	ZTS Erg Bieruń	Modernization of existing control system	Granulated PCV production line	Simatic S5, AS511, 2 different weighing systems, communication through Bufor channel, operator station ASIX	HASO	2000

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No	Customer	Process	Object	System	Realisation	Date
150	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Cooling water installation	The whole plant	3 x SIMATIC S7-400 distributed configuration based on PROFIBUS-DP and DP-PA network, 6 operator servers, several supervisory stations, remote diagnostic of measurement transducers, system integrated with control systems of the Plant	ASKOM	1999
151	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Control and supervisory system of compressor	Compressor „Sulzer”	Simatic controller S7-400 Profibus network, 2 x ASIX operator stations	AUTOMATION	1999
152	Chemical Plant "ORGANIKA-SARZYNA" S.A. Nowa Sarzyna	Supervisory and control system	Cooling Water Installation	FESTO IPC controllers, operator panel, fiber-optic network, 1 operator server, 3 terminal stations	NS Automatyka	1999
153	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Dense soda installation	Dense Soda Department	SIMATIC 115U and OP-17 operator panel	ASKOM	1998
154	Soda Ash Plant Inowrocław Soda Mątwy	Pump installation	Pump station No. 207	ASIX operator station linked to GE-FANUC PLC and 3 PC terminals on Ethernet network	ASKOM	1997
E. PAPER INDUSTRY						
155	Procter&Gamble	Monitoring system of motors of Nappy line for failure prediction	Nappy line	ASIX operator station connected to A-B PLC's	ASKOM	2004
F. CEMENT INDUSTRY						
156	Cement Plant Małogoszcz	Lime flour batching of clinker rotary kiln	Kilns No. 1,2	2 x SIMATIC S5-95U	ASKOM	1998
157	Cement Plant Małogoszcz	Cement mill	Mill	SIMATIC 115U, redundant SINEC L2 network, 2 x SIMATIC 95U, ASIX operator stations and PC supervisory station	ASKOM	1997
158	Cement Plant Małogoszcz	Raw material, ash and cement transport	Transport lines	1 x SIMATIC 115U, redundant SINEC L2 network, 6 x SIMATIC 95U, ASIX operator station and supervisory station	ASKOM	1997
159	Cement Plant Nowa Huta	Cement mill, transport and packaging	Mill No. 8, cement transport	SIMATIC 135U equipped with SINEC L2, ASIX operator station, PC engineering station and ET200 distributed I/O	ASKOM	1996

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No	Customer	Process	Object	System	Realisation	Date
G. COKERIES						
160	Zdzieszowice Cokery Co. Ltd.	Coke Oven Battery No. 7, 8, 11 , 12	Batteries No. 7, 8, 11 , 12	PLC used for each battery: pusher car, coke charging car, guiding car, quenching car, battery system, coke wharf, coal tower. PLC used: 2 x SIMATIC S7-400, 2 x ASIX5-WAUS operator stations, 1 x ASIX5-WAUS engineering station, Profibus network, radio links, SQL server, reports via Internet browser	ASKOM	2003-2008
161	Cokery Radlin	Supervisory and control system for Coke Grading Plant	Coke Grading Plant	SIMATIC S7-300 CPU317 controller with ET200S fail-safe stations, Ethernet and Profibus DP networks, 3 x computer stations with ASIX system (one with two LCD's), 3 x ASIX operator panels	ASKOM	2007 - 2008
162	Cokery Radlin	Control and supervisory system for coke battery No. 1 bis	Battery No. 1 bis	SIMATIC S7-400 PLC's , SCADA asix system	ASKOM	2008
163	Cokery "Przyjaźń" Co. Ltd.	Computer control system for coke oven battery No.5	Coke oven No. 5, two pusher cars, two coke charging cars, two quenching cars, guiding car, coal transport, coke transport, coke dispatch	PLC used: GE FANUC controllers with RX3i processors, SCADA: Industrial Application Server (IAS) - Wonderware Company with InTouch visualization stations.	ASKOM	2005-2007
164	Zdzieszowice Cokery Co. Ltd.	Coke Oven Battery No. 11	Battery No. 11	SIMATIC S7-400, ET200S stations, 2 x ASIX operator stations, engineering station, data server, Profibus network	ASKOM	2005-2006
165	Steel Plant im. T. Sendzimira	Supervisory and control system for chemical installation	Cokery, Benzen Distillation Plant	Simatic S7-300 controller, ASIX operator station	PPU Zakład Automatyki HTS	2004
166	Zdzieszowice Cokery Co. Ltd.	Benzol recovery plant and air-tight sealing installation	Benzol Recovery Department	Simatic S7-400 with ET200M for hazardous areas, 2 x ASIX operator stations	ASKOM	2002
167	Zdzieszowice Cokery Co. Ltd.	Dust extraction installations for coke batteries	Batteries no 5,6	SIMATIC 115U linked via serial line to ASIX operator station	ASKOM	2000
168	Zdzieszowice Cokery Co. Ltd.	Sulphur acid installation	---	SIMATIC S7-300 with 2 x ASIX operator stations	ASKOM	2000
169	Zdzieszowice Cokery Co. Ltd.	Installation of water-tight pitch dehydration	---	SIMATIC S7-300, ASIX operator station and data server, reporting via modem connection	ASKOM	2000

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No	Customer	Process	Object	System	Realisation	Date
170	Steel Plant im. T. Sendzimira	Coke Dry Quenching Plant, excess gas utilization	Coke Oven Battery WK1	4 x SIMATIC 135U based on redundant SINEC H1 network linked to 3 x ASIX operator stations, supervisory station	ASKOM	1999
171	Zdzieszowice Cokery Co. Ltd.	Absorption plant of benzol, H2S and ammonia	Coke Chemistry Department	SIMATIC 135U with SINEC L2 network, 2 x ASIX operator station, remote PC report station	ASKOM	1996
H. COAL MINING						
172	Coal Mine KWK Szczygłowice	Control and supervisory system for fine coal cleaning and pulsator jig	Processing Plant	GE Fanuc, ASIX operator stations	ASKOM	2007
173	Salt Mine Bochnia	Visualization of mine hoist of "Sutoris" shaft	Mine Hoist	ABB controllers, Modbus serial line	EMMA Gliwice	2004
174	Coal Mine KWK Szczygłowice	Flotation dept. modernization	Flotation Dept.	GE Fanuc, 2 x ASIX operator stations	ASKOM	2004
175	Coal Mine KWK Knurów	Control system of savage treatment plant	Savage treatment plant	Saja PCD2 controller	CARBOAUTOMATYKA	2004
176	Coal Mine KWK Szczygłowice	Enlargement of dumping ground	Dumping ground	GE Fanuc, ASIX operator stations	ASKOM	2003
177	Coal Mine KWK Knurów	Visualization of mine hoist of "Jan" shaft	Mine Hoist	ABB controllers, Modbus serial line	EMMA Gliwice	2003
178	Mineral Mine Wrocław	Control and supervisory system of sorting plant in Coal Mine Paczków	Sorting plant	Simatic S7-300, PROFIBUS-DP network, ASIX operator station	DELTA CONTROL	2002
179	Coal Mine KWK Szczygłowice	Fine coal flotation plant	Plant 15.1	3 x GE FANUC 90-30, GENIUS network, 2 x ASIX operator stations, PC supervisory and engineering station	ASKOM	1997
180	Coal Mine "Pokój"	Control and visualization system	Coal Enrichment Plant	6 x Fanuc 90-30 controllers, Genius Network, 2 operator stations, ASIX operator terminal	HASO	1996
I. GAS DISTRIBUTION						
181	Europolgaz	Emission monitoring for gas compression stations	Gas compression station Zambrów and Szamotuły	Server ASEMIS (connection to MK analyzer), internet portal	ASKOM	2004-2005
182	Upper Silesia Gas Distributor	Gas reduction station	Szobiszowice	SIMATIC S5-115U control station linked to local operator station and via radio link to the central dispatcher room	ASKOM	1999
J. STEEL INDUSTRY						
183	Steel Plant im. T. Sendzimira	Monitoring and data logging of energy consumption	Converter Plant	ASIX operator station, terminal station, distributed modules WAGO I/O.	PPU Zakład Automatyki HTS	2003
184	Copper Works Legnica	Supervisory system of pumping stations	Pumping Stations	SIEMENS SIMATIC S7-300, ASIX operator station	BIPROMET	1998

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No	Customer	Process	Object	System	Realisation	Date
185	Zinc Works "Miasteczko Śląskie"	Modernization of loading assembly in shaft furnace department	Shaft Furnace	OMRON C200HS connected to operator station by serial line interface (HOSTLINK protocol)	ISS Katowice	1996
K. CAR INDUSTRY						
186	Delphi Krosno (co-operation TEPRON)	Control and supervisory system for FIAMMA chroming line	Chroming line	SIMATIC S7-300, ET200M modules, one operator stations - PC Fujitsu Siemens computer; OP270B operator panel, Ethernet network	ASKOM	2006
187	FENICE Poland	Monitoring and data logging of energy consumption (compressed air and water)	Delphi Krosno s.a.	Telemecanique TSX 37 serial line Modbus, heat meters AQUATHERM	el GIRO	2004
188	FENICE Poland Bielsko-Biała	Control and supervision system of sewage purification plant	TEKSID Aluminum Poland Sp. z o.o.	S5/115, OCS250, S5/100 controllers, ASIX operator station	μSTER Electronic	2004
189	DELPHI Krosno	Hard chrome line control system	Hard chrome line	Simatic S7-300, MP270B panel, ASIX operator station with report system based on SQL server	ASKOM	2003
190	FENICE Poland	Supervisory and control system for pumping station in water treatment plant	Fiat Auto Poland Tychy	Telemecanique TSX 37 Modbus, serial line, heat meters Danfoss	el GIRO	2003
191	FENICE Poland	Supervisory and control system for pumping station	Teksid Aluminum Bielsko-Biała	Telemecanique TSX 37 Modbus, heat meters AQUATHERM	el GIRO	2003
192	FENICE Poland	Supervisory and control system for pumping station	Teksid Iron Skoczów	Telemecanique TSX 37 serial line Modbus, heat meters AQUATHERM	el GIRO	2003
193	FENICE Poland	Supervisory and control system for pumping station supplying welding shop	Fiat Auto Poland Tychy	Telemecanique TSX 37 serial line Modbus	el GIRO	2003
194	FENICE Poland	Supervisory and control system for sewage treatment plant (algorithms of neutralization, additives dosage)	TEKSID ALuminium Poland	S5/115 and OCS25 controllers, ASIX operator station	μSTER Electronic	2003
195	FENICE Poland Bielsko-Biała	Supervisory system for Compressor Department and 6kV switching station	Compressor Department in Fenice Bielsko-Biała	TSX PREMIUM controller, SEPAM ADAM modules, operator station software development	μSTER Electronic	2003
196	FENICE Poland Tychy	Sewage and rain water flow monitoring	Sewage Purification Plant	SIGMA 950 flowmeters, existing system development	μSTER Electronic	2002
197	Fiat Auto Poland Bielsko-Biała	Supervisory and control system of pumping station	Pumping Station	Telemecanique TSX 37, heat meters AQUATHERM, protocol Modbus	el GIRO	2002
198	FENICE Poland	Visualization of gas reduction station	Fiat Auto Poland Tychy	Telemecanique TSX 37, Modbus serial line	el GIRO	2002

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No	Customer	Process	Object	System	Realisation	Date
199	FENICE Poland Bielsko-Biała	Switching stations 6kV and compressor plant	Compressor Plant	Controller TSX PREMIUM (Modbus) I/O modules ADAM, ASIX operator station IBM/PC	μSTER Electronic	2001
200	Fiat Auto Poland Tychy	Supervisory and control system of pumping station	Pumping Station	GE Fanuc, MODBUS protocol, heat meters AQUATHERM	el GIRO	2001
201	Fiat Auto Poland Bielsko-Biała	Hardening Line Supervisory System	Hardening Line-HUMBERT nr 4	Operator station Advantech, controllers SIMATIC S115 (CP542), 10 x Protronic controller PS H&B	μSTER Electronic	2000
202	Fiat Auto Poland Bielsko-Biała	Hardening Line Supervisory System	Hardening Line-HUMBERT nr 3	Operator station Advantech, controllers SIMATIC S115 (CP542), 8 x Protronic controller PS H&B	μSTER Electronic	2000
203	FENICE Poland Tychy	Rain water and industrial sewage basins	Sewage Purification Plant	Controllers FESTO IPC, FEC,(TCP/IP), measuring equipment, ASIX operator station IBM/PC	μSTER Electronic	2000
204	FIAT-GM Power Train Poland	Paint stirring department	---	PC operator station linked to network of ADAM (of Advantech) aquisition modules, monitoring system	ASKOM	1997
205	DAEWOO Lublin	Supervisory and control system of cataphoresis process	Boiler house, cataphoresis line	Controller SIMATIC S7 400, 2 x ASIX operator stations	el GIRO	1997
L. METAL INDUSTRY						
206	Wagon Factory Gniewczyna	Visualization of wagon painting	Paint Shop	Simatic S7-300, MPI connection, ASIX operator station	HASO	2003
207	ABB Alstom Power Generators Sp. z o.o.	Control and supervisory system of stator heater	Stator heater	Simatic S7-300, ASIX operator station	DELTA CONTROL	2002
208	Tank Operating Managment Warszawa	Visualization of heat measurements acquired from 6 meters	Tank Management Dept in Nidzica	1 PC station with interface to 6 Metronic heat meters; data export to Excell	ASKOM	2001
209	Pomel Wyszków	Supervisory and control system of cataphoresis and galvanizing processes	Galvanizing House	Telemecanique TSX 37, Modbus plus protocol	el GIRO	2000
210	ZML Kęty	Heavy press 1250/l Loevy and 2 presses 2505	3 press units	3 x SIMATIC 135 U, serial interface RS485 to AXIOM operator workstations	ASKOM	1999
M. INTELLIGENT BUILDINGS						
211	University of Economics in Katowice	Integration of alarm, counter-fire and access control system with BMS system	Building A	ASIX interfaces to alarming system, access control ProxNET system and fire-alarm Polon 4800 system	ASKOM	2005-2006

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No	Customer	Process	Object	System	Realisation	Date
212	BIW Intelligent Systems	Control and supervisory system for intelligent building	Building	WAGO I/O controllers, ASIX server, remote alarming based on SMS, integration with fire protection system and access control system (POLON 4000)	ASKOM	2005
213	University of Economics in Katowice	Control and supervisory system for ventilation in halls A333, A335	Building A	S7-200 PLC's and OP3 panels used , interface with existing operator stations	ASKOM	2005
214	Tax Office Krakow	System BMS	Building	WAGO I/O controllers, ASIX server, remote notification based on SMS, integration with fire protection system and access control system (POLON 4000)	ASKOM	2004
215	Mercor	Visualization and control of smoke extraction systems		MEGAM acquisition modules	MEGAM	2004
216	University of Economics in Katowice	BMS system	Maior Hall	4 x SIMATIC S7-200, 2 x TD-200 panel, 2 x ASIX (1 server + 1 terminal) connected via Ethernet network	ASKOM	2003
217	Waterworks and Sewerage Company Świecie	Visualization of anti-theft system		Controller MEGAM, protocol Modbus RTU	MEGAM	2002
218	Van Melle, Tarczyn	Ventilation, air conditioning, heating and water installations	Building Management System	SCADA system based on 2 x ASIX operator stations interfaced via CAN-BUS network of 15 SELECTRON PLCs	ASKOM	2001
219	Olimpic Sports Centre Cetniewo	System of visualization and control of water purification plant		Controllers Siemens S7-200, protocol Profibus DP (SAPI S7)	MEGAM	2001
220	Olimpic Sports Centre Cetniewo	System of visualization and control of air conditioning station		Controllers Siemens S7-200, protocol Profibus DP (SAPI S7)	MEGAM	2001
221	PARK Hotel - Wrocław	Ventilation, air conditioning, fire-fighting installation of PARK Hotel	Building Management System	SCADA system based on two operator stations interfaced via CAN-BUS network of 17 SELECTRON PLCs	ASKOM	1999
N. MUNICIPAL BUILDING						
222	Water Distribution Zielona Góra	Water pipes system monitoring	Water pumping stations: Lubuska, Wiśniowa, Sulechowska, Braniborska, Sadowa	Telemetry network based on Centrex services, ASIX visualization server, terminals in local network	ASKOM	2004-2007
223	Regional Hospital No. 3 Rybnik - Orzepowice	Control and supervisory system for boiler-room	boiler-room	Beckhoff CX1000 with I/O remote stations, ASIX operator station	ASKOM	2005

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No	Customer	Process	Object	System	Realisation	Date
224	Water Supply System Świecie	Remote visualization and control of pumping station	Pumping station	Simatic S7-200 controllers, GSM modems	MEGAM	2004
225	Municipal Thermal Plant Mikołów	Visualization and control system for boiler house	Municipal Boiler House	Saja PCD2.M177 controller	CARBOAUTOMATYKA	2004
226	Wastewater Treatment Plant in Łódź	Control system for biogas supplied electrical power generators	Wastewater Treatment Plant in Łódź	Simatic S7-300 with ET-200S distributed I/O stations, Profibus and Profibus DP networks, ASIX operator station, communication with 3 engine's controllers.	ASKOM	2003
227	Municipal Office Łapanowo	Control and supervisory system of sewage purification plant	Sewage Treatment Plant	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2003
228	Municipal Office Łapanowo	Control and supervisory system of water treatment plant	Water treatment plant	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2003
229	Municipal Company Czarna	Control and supervisory system of sewage purification plant	Sewage Treatment Plant	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2003
230	Waterworks Company Padwia Narodowa	Control and supervisory system of sewage purification plant	Sewage Treatment Plant	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2003
231	Municipal Heat Power Company Giżycko	Supervisory system for 2 boiler houses and heat distribution centers	Municipal Boiler House	Viesmann controllers Dekamatik, heat meters Kamstrup Multicach. Communication based on RAS through commutated telephone network, 4 operator servers	MARTEX Jan Martyniuk	2003
232	Silesian Waterworks Company Katowice	Dam supervisory and control system	Goczalkowice Dam	FC 660 FESTO/BECK controllers, fiber-optic network TCP/IP / Hirshman, ASIX operator station	μSTER Electronic	2003
233	Waterworks and Sewerage Company MPWiK Żywiec	Telemetry system for pumping station	Watr Basin "Koleby", Pumping Station "Pierwogóra", Water Treatment Plant Żywiec	FC 660 FESTO/BECK controllers, radiomodems SATEL, modems, leased line, ASIX operator station	μSTER Electronic	2003
234	Neuropsychiatry Hospital at Lublin	Automation system for water heater and steam boiler	3 water heater, 1 steam boiler	5 PLCs WAGO I/O 750 connected to operator station via Ethernet	ASKOM	2002
235	Waterworks and Sewerage Company ZPWiK Zabrze	Supervisory and control system of sewage purification plant	Sewage Purification Plant	Controller Bernecker & Rainer 2005, remote I/O modules	TECHNICON	2002
236	Waterworks and Sewerage Company MPWiK w Oświęcimiu	Supervisory and control system of main hydrophore station	Hydrophore Station	Controller Modicon TSX MICRO, ADAM converter, ASIX: 1 operator station	ZPiA RASTER	2002
237	Waterworks and Sewerage Company MPWiK w Oświęcimiu	Supervisory and control system of water conditioning plant	Water Conditioning Plant	Controller Modicon TSX MICRO, ADAM converter, ASIX: 1 operator station	ZPiA RASTER	2002

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No	Customer	Process	Object	System	Realisation	Date
238	Waterworks and Sewerage Company Jastrzębie	Supervisory system of industrial water intake	Water Purification Plant	Controller S7 300, ASIX operator station, measurement equipment	ISS Katowice	2002
239	Building Municipal Company Czchów	Visualization of water supply system	Water Supply System	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2002
240	Municipal Office Tomice	Control and supervisory system of sewage purification plant	Sewage Treatment Plant	Modicon TSX MICRO controller, ADAM converter, ASIX operator station	ZPiA RASTER	2002
241	Transcom Sp. z o.o.	Supervisory and control system of swimming pool	Katowice University of Economics	Telemecanique TSX 37 Modbus serial line, heat meters Danfoss	eI GIRO	2002
242	Water and Sewage Plant in Szczecin	Telemetry system	Supervisory room, 3 station	Supervisory Dispatcher System, remote stations based on S5-100 and S7-300 PLCs	ASKOM	2001
243	Municipal Office Drawsko Pomorskie	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Simatic controller S5-100, ASIX operator station	AUTOMATION	2001
244	Waterworks Company „Złota Struga” Żary	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Simatic controllers S5-100 SINEC-L1 / PROFIBUS network, OPC-Server, ASIX operator station	AUTOMATION	2001
245	Municipal Office Płoty	Remote supervisory system of pumping stations	Pumping Stations	Simatic controllers S7-200, modem network based on leased lines, ASIX operator station	AUTOMATION	2001
246	Municipal Office Przechlewie	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Simatic controller S7-300 Profibus network, ASIX operator station	AUTOMATION	2001
247	Waterworks Company Sarbinowo	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Simatic controller S7-300 Profibus network, ASIX operator station	AUTOMATION	2001
248	Waterworks and Sewerage Company RPWiK Brzesko	Supervisory and control system of sewage purification plant	Sewage Purification Plant	Controller SAIA PCD2, ASIX: 1 operator station	ZPiA RASTER	2001
249	Municipal Company Chełmek	Supervisory and control system of water conditioning plant	Water Conditioning Plant	Controller Modicon TSX MICRO, ADAM converter, ASIX: 1 operator station	ZPiA RASTER	2001
250	Municipal Enterprise Bytom	Telemetry for city water supply system	Control room, 20 stations on city area	Supervisory system and 20 x SIMATIC 103U equipped with SINAUT ST telemetry system, ASIX based communication and supervisory system	ASKOM	2000
251	Municipal Office Wolin	Remote supervisory system of pumping stations	Pumping Stations	Simatic controller S7-200, modem network based on leased lines, ASIX operator station	AUTOMATION	2000
252	Municipal Office Dziwnów	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Controllers VersaMax GE Fanuc, PROFIBUS network, ASIX operator station	AUTOMATION	2000
253	Municipal Office Dziwnów	Remote supervisory system of pumping stations	Pumping Stations	Simatic controller S7-200, modem network based on leased lines, ASIX operator station	AUTOMATION	2000
254	Municipal Office Płoty	Control and supervisory system of sewage purification plant	Sewage Purification Plant	Simatic controller S7-300 Profibus network, ASIX operator station	AUTOMATION	2000

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
255	Sewage Purification Plant Toruń	Control system of sewage collection unit	Sewage Purification Plant	Flow meter ENKO connected to operator station by serial interface (protocol MODBUS RTU)	ENKO	2000
256	Municipal Office Tarnów Opolski	Supervisory and control system of sewage purification plant	Sewage Purification Plant	Controller Bernecker & Rainer 2005	TECHNICON	2000
257	Waterworks Company Tarnowskie Wodociągi Sp. z o.o. w Tarnowie	Supervisory and control system of water distribution network, consumption quantity and conditioning plant	Water distribution network	Controllers Modicon MICRO TSX MICRO, NAIS Matsushita, terminals GSM M70, ADAM converters, fiberoptic network, ASIX stations: 3 servers, 1 operator stations, 3 network terminals	ZPiA RASTER	2000
258	Municipal Office Tarnów Opolski	Supervisory and control system of sewage purification plant	Sewage Purification Plant	Controller Bernecker & Rainer 2005, ASIX operator station	el GIRO	2000
259	Municipal Office Goczałkowice Zdrój	Pump Station Supervisory System	Pump Station	Controllers FESTO IPC, FEC, (TCP/IP), radio modems DIRACOM, measuring equipment, operator station IBM/PC	µSTER Electronic	1999
260	Waterworks Enterprise Katowice	Chlorination Station Supervisory System	Chlorination Station	Controller FESTO / IPC / (TCP/IP), modules I/O FESTO EA 88 /PROFIBUS, ASIX operator station IBM/PC	µSTER Electronic	1999
261	Municipal Company Kraśnik	Control system of sewage collection unit	Sewage Purification Plant	Flow meter ENKO connected to operator station by serial interface (protocol MODBUS RTU)	ENKO	1999
262	Waterworks and Sewerage Company MPWiK Włocławek	Control system of sewage collection unit	Sewage Purification Plant	Flow meter ENKO connected to operator station by serial interface (protocol MODBUS RTU)	ENKO	1999
263	Waterworks and Sewerage Company Świecie	System of visualization and control of water purification plant	Water Purification Plant	Controllers Telemechanique TSX nano, protocol MODBUS RTU	MEGAM	1999
264	Waterworks and Sewerage Company Świecie	Visualization system of pumping station	Pumping station	Controllers Telemechanique TSX nano, protocol MODBUS RTU	MEGAM	1999
265	Waterworks and Sewerage Company MPWiK Żywiec	Supervisory and control system of sewage biological purification plant	Sewage Purification Plant	Measuring equipment (Zuellig, Polymetron), ASIX operator station	PTH JUMAR	1999
266	Waterworks and Sewerage Company Śrem	Supervisory and control system of sewage biological purification plant	Sewage Purification Plant	ADVANTECH end ENEL controllers measuring equipment, ASIX operator station	PTH JUMAR	1999
267	ELPROMONT BIS Chodzież	Supervisory and control system of sewage purification plant	Sewage Purification Plant	13 x SIM-60 controllers, ASIX operator station	SIMEX	1999
268	Swimming Pool Jaworzno	Visualization of water conditioning plant	Pool	Controllers B&R 2003, CAN-BUS connection to ASIX operator stations	ZUI SHIFT	1999

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
269	Swimming Pool Łędziny, Bielawa	Visualization of chemicals proportioning installation	Pool	DSC2000 proportioned, ASIX operator station	ZUI SHIFT	1999
270	Swimming Pool Jaworzno	Supervisory and control system of swimming pool water circulation	Pool	Controller Bernecker&Rainer 2005, ASIX operator station	el GIRO	1999
271	Municipal Office Oświęcim	Basin Control System	Sewage Purification Plant	Controller FESTO: FPC 103, (CI), measuring equipment, operator station IBM/PC	μSTER Electronic	1998
272	Waterworks and Sewerage Company Świecie	System of visualization and control of water purification plant and pumping station	Water Purification Plant	Telemechanique controllers, modem connection to ASIX operator station	MEGAM	1998
273	Reception Basin Oświęcim	Basin Control System	Sewage Purification Plant	SIMATIC S5-100U, FPC103AF, operator station interface RS232/20 mA (protocol Festo Diagnostic)	μSTER Electronic	1996
274	Waterworks of Cieszyn District	Biological Sewage Purification Plant	Sewage Purification Plant	Controllers: FESTO FPC 405,103AF(CI) operator station IBM/PC	μSTER Electronic	1996
275	Sewage Purification Plant Szubin	Sewage Purification Plant	Sewage Purification Plant	Controller OMRON C200HS operator station, (protocol HOSTLINK)	AKP Systems	1996
276	Sewage Purification Plant Skoczów	Automatic control of oxygen concentration in air admission chamber	Sewage Purification Plant	FESTO FPC103AF connected to ASIX operator station (protocol Festo Diagnostic)	BSP Electronic	1996
O. POWER PLANTS – Boiler automation systems						
277	Thermal Power Plant EC Kujawy	Modernization of control and supervisory system for K4 boiler	Boiler K4	Simatic S7-400, WAGO IO stations, Phoenix Contact modules, Profibus -DP, 2 x ASIX operator servers	ASKOM	2007
278	Nitric Plant Kędzierzyn	Repair of automation system for Regeneration Centre on Heat Department	Regeneration Centre	S7-300 controller, ET200S modules, 2 x ASIX operator server, Profibus-DP network, interface with media monitoring system	ASKOM	2007
279	Nitric Plant Kędzierzyn plc	Revamping of control and supervisory system for coal boilers	boilers K7, K8	For each boiler: controller CX1000 Beckhoff and one 2-monitors ASIX operator station	ASKOM	2006
280	Thermal Power Plant EC Kujawy	Modernization of control and supervisory system for CTKI-75 boiler	CTKI-75 boiler	S7 - 400 with WAGO IO stations, ET200S modules and motor modules Phoenix Contact; 2 x S7-200, 2 x 2-monitors ASIX operator stations	ASKOM	2006
281	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	Low-emission burners and complete automation system for boilers OP-140 and CTKI75	Boilers No. 1,2,3,4, 5	2 x SIMATIC 135U, 3 x SIMATIC S7-400, PROFIBUS network, ET200S nodes, 10 x ASIX operator stations, connection to plant Ethernet network	ASKOM	1997-2005

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
282	Thermal Power Plant EC Moszczenice	Control and supervisory system for Boiler OCG64 no 1, 5	Boiler OCG64 no 1, 5	For each boiler : SIMATIC S7-400, controller S7-200, I/O Beckhoff nodes, 3 x operator stations, engineering station	ASKOM	2004-2005
283	Tire factory STOMIL Olsztyn	Low-emission burners installed at OP-70 boiler, boiler automation inc. technological and electrical part, interlocking and protections	Boilers No. 1, 2, 3	Simatic S7-400, Simatic S7-300, ET200S stations, 2 x ASIX operator stations	ASKOM	2001-2004
284	Thermal Power Plant EC Moszczenice	Control and supervisory system for OCG-64 boiler	Boiler OCG-64	Simatic S7-400, and S7-200 Beckhoff bus terminals, two operator stations, supervisory station	ASKOM	2004
285	Thermal Power Plant EC Legnica	Visualization, control and process supervisory	3 water boilers, 2 steam boilers, water and steam heat distribution plants	3 x Simatic S7-400, 33 x I/O ET-200S stations, 3 x operator stations + engineering station with ASIX SCADA system	ASKOM	2003
286	Heating Plant Wola - Warszawa	Modernization of PTWM100 boiler including process automation and burning management system	Boiler No. 4	Simatic S7-400, Simatic S7-300, WAGO I/O System, PROFIBUS Network, 2 x ASIX operator stations	ASKOM	2002
287	PEPEES S.A. Łomża	Steam boiler supervisory system	Boiler OR16/40	Siemens controller S7 300, ASIX operator station	APS	2001
288	Thermal Power Plant EC Białystok	Low-emission burners installed at OP-230 boiler, automation system modernization	OP-230 boiler No. 8	SIMATIC 135U based on Profibus network linked to 2 x ASIX operator stations, data server linked to plant network	ASKOM	2000
289	Thermal Power Plant EC Białystok	Modernization of fluid coupling control of water supplying pump, lighting-up burners	Boilers K5 , K6	Extension of existing SIMATIC S5-135U PLCs, communication with 8 x SIMATIC S7-200 PLC	ASKOM	1999
290	Steel Plant im. T. Sendzimira	Low-emission burners installed at OP-230 boiler, process automation	OP-230 boiler	2 x SIMATIC S7-400, Profibus network, 2 x ASIX operator stations, engineering and supervisory station	ASKOM	1999
291	SGL Carbon Racibórz	Data acquisition of steam , water and condensate flows, including visualization and reporting	Thermal plant PŁONIE	5 x vortex flow meters, 1 x ASIX operator station, 1 x PC operator server	ASKOM	1999
292	Thermal Power Plant EC Białystok	Low-emission burners installed at OP-140 boiler	Boiler No. 5,6	2 x SIMATIC 135U, ASIX operator stations of power unit No. 1 supervisory system	ASKOM	1998
293	Power Plant Turów	Data acquisition systems	Power units No. 5,6,7	3 x SIMATIC 135U and serial link to PC with DDE/OLE2 data server under Windows NT	ASKOM	1998

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
294	Thermal Power Plant EC Katowice	Low-emission burners installed at WP-200 boiler	Boiler No. 3	SIMATIC 135U, SINEC L2 network, ASIX operator station and PC supervisory station	ASKOM	1997
295	Thermal Power Plant EC Tychy	Modernization of WP-120 boilers	Boilers No. 4, 5	2 systems, each of: SIMATIC 135U, SINEC L2 network, 2 x ASIX operator stations. Common 3 PC supervisory stations	ASKOM	1997
296	Power Plant Blachownia	Modernization of bi-fuel (cokery gas and pulverized coal) boilers	Boilers No. 2,3,5,6,7	5 x SIMATIC 135U, redundant SINEC L2 network, 6 x ASIX operator stations, PC supervisory and engineering station	ASKOM	1997
297	Thermal Power Plant Zdzeszowice Cockery	Modernization of bi-fuel (cokery gas and pulverized coal) boilers	Boilers No. 1,2	2 systems, each of: SIMATIC 135U, redundant SINEC L2 network, 2 x ASIX operator stations. Common PC supervisory station	ASKOM	1996
298	Power Plant Turów	Oil burners installation	Boiler No. 7	SIMATIC S5-115U and OP-25 operator panel	ASKOM	1996
299	Thermal Power Plant ZECP Karolin	Low-emission burners installed at OP-140 boilers	Boilers No. 1K1, 1K2	2 systems, each of: SIMATIC 135U, SINEC L2 network, ASIX operator station	ASKOM	1996
P. POWER PLANTS - Turbogenerators control systems						
300	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda" (co-operation- Inwat, Łódź)	Modernization of steam turbine LANG 16 MW	Turbines TG-4, TG-5	SIEMENS S7-400 controller for every turbine, EHR (INWAT delivery) , 3 x ASIX operator stations	ASKOM	2004-2007
301	Thermal Power Plant EC Kujawy (co-operation INWAT)	Control and supervisory system for TG1 turbine	TG1 turbine	SIMATIC S7-400, WAGO I/O stations; two operator stations (2 monitors each), ASIX visualization	ASKOM	2006-2007
302	Nitric Plant Kędzierzyn	Repair of computer automation system for Turbine Room and Heat Distribution Centre	Turbine Room and Heat Distribution Centre	PLC used: 5 x Beckhoff CX1000 controller, CP6911 operator panel, 2 x FIX32 server, ASIX operator station, introducing media balance system	ASKOM	2007
303	Heat Power Company PE Megawat Knurów	Supervisory and control system of 8MW turbine	Turbine	Controller Bernecker & Rainer 2005	TECHNICON	2002
304	Heat Power Company PE Megawat Knurów	Supervisory and control system of 8MW turbine	Turbine	Controller Bernecker&Rainer 2005, ASIX operator station	eI GIRO	2002
305	Power plant Jaworzno III - Jaworzno II	Turbo generator set ABB Zamech 7UC60	Turbo generator set No. 1	System modernization - additional SIMATIC S7 PLC for generator interlocks, interfaced via Profibus to existing SIMATIC S5, new PC operator stations based on ASIX Scada system	ASKOM	2000

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
306	Power Plant Blachownia	60 MW turbo generator sets	No. 1,2	Control and supervisory system based on 2 x SIMATIC 155U interfaced to control system Teleperm XP via SINEC H1, linked via Profibus to 2 x ASIX operator stations and PC supervisory station	ASKOM	1999
307	Thermal Power Plant Zdzieszowice Cockery	Turbo generator set of ABB Brno 32 MW	Turbo generator set No. 1	SIMATIC 135U based on redundant SINEC L2 network linked to 2 x ASIX operator stations and PC engineering station	ASKOM	1997
308	Thermal Power Plant EC Miechowice	Turbo generator sets 7UC60 and heating distribution station	Turbo generators TG-2, TG-1	2 systems, each of: 2 x SIMATIC 135U, redundant SIMATIC 135U, redundant SINEC L2 network, 2 x ASIX operator stations. Common PC engineering and supervisory station, and SIMATIC 95U for control of mimic diagram	ASKOM	1996
Q. POWER PLANTS – Desulpherization plants						
309	Power Plant Bełchatów plc	Expansion of the controlling system for gypsum transport - block no. 3 and 4	Gypsum transport	Expansion system consisting two controllers SIMATIC S7-400 and 2 x ASIX operator stations	ASKOM	2006 - 2007
310	Power Plant Rybnik	Control and supervisory system for modernization of IOS power unit 6	IOS6	S7-400 controller, ET200M stations, fiber optical Profibus-DP network , project of changes of control cabinets, software and testing controllers, operator panels, ASIX operator stations	ASKOM	2007
311	Power Plant Rybnik	Project and software of supervisory system for IOS power unit 8	IOS8	Extension of existing Simatic S5-135U controller	ASKOM	2007
312	Power Plant Turów	Exchange of Simatic S5-115U visualization system of sorbent tanks installation no. 1 and 2	Sorbent tank 1 and 2	ASIX operator station connected with SIMATIC S5-CP 524 processor, ETHERNET network	ASKOM	2007
313	Power Plant Rybnik	Revamping of control system of desulphurization installation of block no. 1	Desulphurization installation	Enlarging of existing SIMATIC S5-135U	ASKOM	2006
314	Power Plant Rybnik	Control and supervisory system for modernization of IOS5 power unit 5	IOS 5	Project of control cabinets, controller D5S1 central part S7, ET200M module	ASKOM	2005
315	Power Plant Bełchatów plc	Band conveyors transport of gypsum from store to track filling stations, railway cars and KNAUFF factory	Transport of gypsum	Simatic S7-400, ET200S stations, 2 x ASIX operator stations. Modernization of existing Simatic S5-115U	ASKOM	2001

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
316	Power Plant Rybnik	Desulphurization of boiler exhaust gas based on semi-dry method and electrical precipitator	Power unit No. 1, 5, 6, 8	6 x SIMATIC S5-135U, 3 x S5-95U, redundant PROFIBUS network, 6 x ASIX operator stations, 3 PC stations for process supervision as well as operator panels: 2 x OP15, 6 x OP7	ASKOM	2000
317	Power Plant Rybnik	Lime flour production plant	Power Unit No. 8	SIMATIC S5-135U based on PROFIBUS network linked to operator stations of desulphurization plant	ASKOM	1999
R. POWER PLANTS - Coal supply						
318	Power Plant Turów S.A.	Replacement of Simatic-S5 PLC's	Excavation reclamation system	4 x SIMATIC S7-300 controllers , INDUSTRIAL ETHERNET network, 6 x OP77A operator panels with SIMATIC WinCC Flexible Compact visualization system, upgrade of ASIX visualization system from ver 3.xx to 4.0 on 5 x operator stations, radio communication	ASKOM	2007 - 2008
319	Power Plant Turów	Replacement of SCADA system for Coal Milling Plant	Coal Milling Plant	3 x ASIX 2-monitor operation stations, PROFIBUS network, ETHERNET network, synoptic table	ASKOM	2007 - 2008
320	Power Plant Rybnik	Extension of coal supply supervisory system for biomass transport	Biomass installation	SIMATIC S7-300 with ET200S extra stations, fiber optical Profinet network, ASIX operator station of coaling system	ASKOM	2005 - 2007
321	Power Plant Rybnik	Installation for biomass and carbon burning	Coal feeding system	S7-300, I/O ET200M stations, operator panel, Profinet network	ASKOM	2005-2006
322	Power Plant Łaziska	Extension of coal feeding system for biomass transport	Coaling Plant	Cabinet assembly project, development of S7-400 controller, exchange of existing monitors for LCD monitors, upgrading ASIX software from version 2 to version 4	ASKOM	2005
323	Power plant Jaworzno III - Jaworzno II	Coal supply system	Coaling Plant	Distributed system of SIMATIC S7-400 and remote ET200 stations, 2 x S7-300, linked via Profibus to 2 x ASIX operator stations and PC engineering station, radio controlled trucks and loading/dumping machines	ASKOM	2000

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
324	Power Plant Turów	Coal feeding system, ash disposal and air compressor plant	Power Units No. 1...6	Fiber optic PROFIBUS network, 16 SIMATIC S5-135U and 9 PC operator stations, PC supervisory station, PC engineering station and PC Gateway to Industrial Bus of the Power Plant (RPC protocol)	ASKOM	2000
325	Power Plant Łaziska	Coal feeding system	Coaling Plant	Distributed system of SIMATIC 135U and remote ET200 stations, 10 S5-95U, linked to 2 x ASIX operator stations, PC supervisory station and 2 LAN terminals, radio controlled trucks	ASKOM	1999
S. POWER PLANTS - Ash disposal installations						
326	Power Plant Turów	Ash towers installation	Ash disposal installation	2 x SIMATIC S7-400 distributed system with 33 ET200S I/O modules, Profibus network, 4 x ASIX operator stations, engineering station and data server to plant-wide technical network	ASKOM	2001-2006
327	Thermal Power Plant EC Tychy	Installation of fly ash recirculation from electro filter to fluidized bed boiler BC-35	Electro filter	ASIX operator station	Kooperacja POLKO	2002
328	Power Plant Rybnik	Control room of ash disposal system	4 power units	Distributed control system based on SIMATIC PLCs (4 x S5-95U), Profibus network, 2 x ASIX operator stations, 1 supervisory station	ASKOM	2001
329	Thermal Power Plant EC Będzin	Supervisory and control system of ash disposal installations (electro filters 5,6,7,8) i compressed air supply station	Ash disposal installation	Controllers S7 300, ASIX operator station	ISS Katowice	2001
T. POWER PLANTS – Switching stations						
330	Power Plant Rybnik	Control and supervisory system for 110 kV switchboard station	RO4, R4S switchboard station	Simatic S7-300, ET-200M modules, Profibus network, Ethernet network, ASIX supervisory system	ASKOM	2007
331	KWK Budryk plc (co-operation OAS Zabrze)	Visualization system and remote control of HV switchgears	6kV switchgears, 84 switch bays equipped with MultiMUZ protection relays	ASIX server for data acquisition from MultiMUZ protection relays of switch bays connected to Ethernet network based on Nport serial port servers of the MOXA Company	ASKOM	2006 - 2007

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
332	Power Plant Rybnik	Modernization of 6kV switching stations	RO6-2	2 x operator stations + operator terminal (ASIX), 2 x MUZ-Rely concentrating server (PC+ASIX), fiber optic network RO6-2/NN	ASKOM	2002
333	Thermal Power Plant EC Tychy	Switching stations control system	Switchboard Stations	Simatic S7-400, WAGO I/O System, Profibus network, 2 x operator stations ASIX	ASKOM	2002
334	Water Power Plant SOLINA	Modernization of 110 kV Switchboard station	110kV switchboard station	SIMATIC S7-400 (ca. 1000 I/O) connected via redundant fiber optic PROFIBUS to control and supervisory system of power plant (5 operator stations , 1 engineering station and 1 supervisory station in control room)	ASKOM	2001
U. POWER PLANTS – Elektrofilters						
335	Thermal Power Plant EC Moszczenica	Control and supervisory system for electro-filter of boiler no. 4	Boiler OCG64 no 4	Delivery additionally equipment for S7-400 controller, software and testing controller within the range of communication with ESP R7 regulators using Modbus ASCII protocol, software and testing ASIX operator station	ASKOM	2007
336	Power Plant Rybnik	Control and supervisory system for electro precipitator no.1	electro precipitator no.1	Controller S7-400 with ET200M stations, FO Profibus network connecting PLC with control rooms of block no. 1 , 2 and ash disposal system	ASKOM	2006
337	Power Plant Rybnik	Electro-filter	Power units No. 2,4,7,8	Simatic S7-400 linked with redundant fiber-optic PROFIBUS in ASIX operator station at power unit control room and ash disposal control room	ASKOM	2001-2004
338	Power Plant Obrenovac Serbia	Electro-filter	Power Unit A5	SIMATIC S7-300, ASIX operator station	ASKOM	2004
339	Power Plant Obrenovac Serbia	Electro-filter	Power Unit A2	SIMATIC S7-300, ASIX operator station	ASKOM	2004
340	Thermal Power Plant EC Legnica	Electro-filter visualization	Electro filter	3 ASIX operator stations, engineering station	ASKOM	2003
341	Thermal Power Plant EC Białystok	Electro-filter	Power unit No. 1	SIMATIC 135U with interface to ESP voltage regulators, visualization and control via ASIX operator stations	ASKOM	1998
342	Power Plant Rybnik	Electro-filter	Power unit No. 1	SIMATIC 135U, interface with ESP-R6 voltage regulators, linked to PC operator stations of desulphurization plant	ASKOM	1997

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No	Customer	Process	Object	System	Realisation	Date
V. POWER PLANTS – Water Management						
343	Power Plant Rybnik	Control and supervisory system for water demineralization plant	Water demineralization plant	Simatic S7-300 controller with I/O modules system ET200S, Profibus network, 2 x ASIX operation stations, OP 77A panel	ASKOM	2007 - 2008
344	Power Plant Turów	Changes in TELEPERM 220EAi control system because of chemicals warehouse modernization	Water Treatment Plant	The system was supplemented by a few dozen of drives and measurements	ASKOM	2006-2007
345	Power Plant Turów	Supervisory and control system for Waste Water Treatment Plant	Waste Water Treatment Plant	SIMATIC S7 controller connected redundant PROFIBUS network with 3 x ASIX operator station and ASIX engineering station	ASKOM	2007
346	Power plant Jaworzno III	Modernization of control system for waterside pumping station	pumping station	ASIX operator station, PROFIBUS network, communication with SIMATIC S7-400	ASKOM	2005
347	Power Plant Rybnik	Measurement system of water balance and liquid wastes drop		Instrumentation project, radio data transition	ASKOM	2005
348	Power Plant Turów	Waste water treatment plant	---	SIMATIC S7-400, operator panels OP-7, ASIX operator station, PC supervisory station	ASKOM	2001
349	Power Plant Turów	Pumping stations for Fire Fighting Water and Drinking Water	---	1 x SIMATIC S7-400, MPI interface, operator panel MP270	ASKOM	2001
350	Thermal Power Plant EC Białystok	Supervisory control of water mains pumps	Pump plant	Siemens controller S7-300	APS	2000
351	Coal mine KWB Turów	Waste water treatment plant	7 pump stations	SIMATIC S7-300 with OP7 operator panel, I/O based on WAGO modules	ASKOM	2000
352	Power plant Jaworzno III - Jaworzno II	Water pumping plant	---	SIMATIC S7 with 5 x ET200 racks, linked to ASIX operator station	ASKOM	2000
353	Sewage Purification Plant of HTS	Supervisory and control system of sewage purification plant	Sewage Purification Plant	Controller Simatic S7-300, fiber optic network, 2 x ASIX operator stations, 1 network terminal	Wydział Automatyki i Telekomunikacji Huty im. T.Sendzimira KRAKÓW	1999
W. POWER PLANTS – Auxiliary installations						
354	Power Plant Rybnik	Control and supervisory system for SAC3 compressor	SAC3 compressor	SIMATIC S7-300 is responsible for Modbus RTU protocol communication with compressor PLC, data are passed down to operator stations in control room of ash disposal installation	ASKOM	2006 - 2007
355	Power Plant Turów	Extension of SUW control system for reporting-archiving PC station	SUW	data server - GATEWAY PC	ASKOM	2005-2006

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No	Customer	Process	Object	System	Realisation	Date
356	Thermal Power Plant EC Moszczenice	Gas burners control system	Boilers OCG64 no 1, 5	SIMATIC S7-300 connected to boiler control system	ASKOM	2004-2005
357	Power Plant Rybnik	Installation of transport air	transport air installation	SIMATIC S7-300	ASKOM	2005
358	Power Plant Rybnik	Revamping of heating station	Heating station of power unit No. 1	SIMATIC S7-300, Profibus, ASIX operator stations	ASKOM	2004
359	Power Plant Rybnik	Computer system for visualization and control of cooling towers	Cooling tower	SIMATIC S7-300, distributed I/O ET200S, OP7 panel, ASIX operator station	ASKOM	2004
360	Thermal Power Plant EC Siekierki	Control and supervisory system for central water demineralization plant	WTP	Existing: 3 x SIMATIC S5-135, Sinec H1 network, new: 2 x ASIX operator stations	ASKOM	2004
361	Soda Ash Plant Janikowskie Zakłady Sodowe "JanikoSoda"	TG5 regenerative preheated control system	Turbine TG5	Boiler No.5 control system extension (Wago I/O)	ASKOM	2003
362	Power Plant Rybnik	Turbo compressor visualization	Ingersoll Rand turbo compressor	Communication with CMC controller of Ingersoll Rand turbo compressor, ASIX operator stations	ASKOM	2003
363	Power Plant Bełchatów plc	Multichannel data logger with 10 ms time resolution		Multichannel (up to 32 analog/binary inputs) data logger with 10 ms time resolution built upon standard PC equipped with A/C converter (PCI-1710 by Advantech), SQL data base (MSDE) and PCAnywhere software for remote management over Ethernet network	ASKOM	2002
364	Power Plant Turów	Automation system	Water pumping station	2 x SIMATIC S7-400, Profibus network, 2 x ASIX operator stations, Engineering station incl. gateway function to PME plant network	ASKOM	2001
365	Power Plant Turów	Technological water chemical treatment installation	Power units No. 1-10	SIMATIC S7-400 distributed system with 10 ET-200S remote stations, 2 x ASIX operator stations, engineering and supervisory station	ASKOM	2000
366	Power Plant Turów	Control and supervisory system for central water demineralization plant	WTP	TELEPERM ME EAI system, OS-525 (2 x HOST, 4 x Terminals) supervisory system, PC engineering station, PC-Gateway to Industrial Bus of the power plant (RPC protocol)	ASKOM	2000

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No	Customer	Process	Object	System	Realisation	Date
367	Power Plant Łaziska	Control and supervisory system of air compression plant, 3 new compressors, 3 modernized compressors	Compressors No. 1..6	SIMATIC S7-400 linked by MODBUS to 3 x QUAD2000 PLCs and by MPI to 3 x S7-300, 3 x OP27 operator panels for local control and supervisory system contains ASIX based 2 x operator stations and engineering station	ASKOM	2000
368	Power Plant Bełchatów plc	Pipes stress monitoring	Power unit No.1	ASIX operator station	ASKOM	1999
369	Power plant Jaworzno III - Jaworzno II	Ventilation of boiler house	---	1 x SIMATIC S7-400, ASIX operator station	ASKOM	1999
370	Power Plant Turów	Mazout installation	Mazout unit	SIMATIC S5-115U, OP-37 operator panel, 12 x regulator SIPART	ASKOM	1998
371	Thermal Power Plant EC Białystok	Visualization of oil system parameters	Oil System	(Miltronics XPL+ measuring equipment), ADAM I/O modules, ASIX operator station	APS	1998
372	Thermal Power Plant EC-2 Łódź	Rail distributing car	Line No. 13B	SAIA PCD4 PLC	ASKOM	1995
373	Power Plant Blachownia	Steam cooling and reducing stations no 3 and 4	Steam distribution plant	1 x SIMATIC 135U	ASKOM	1994
X. POWER PLANTS – Heating stations						
374	Thermal Plant Legnica	Project of control system of combustion gas desulphurization installation	Boiler	S7-400 with I/O ET-200S stations, Asix	ASKOM	2006
375	SFW - ENERGIA Gliwice	Visualization of boiler no 5 and heat center	District Heating Station Poniatowa	Extension of existing system (GE Fanuc 90-30 controller, Ethernet network)	ENERGOPROJEKT K-ce SA	2004
376	Waterworks and Power Heat Company "COWIK" Bartoszyce	Supervisory system of 3 boilers and heat power station	Municipal Heat Power Plant	Siemens controller S7-300, WAGO I/O modules, ASIX operator station	APS	2001
377	Municipal Heat Power Company Bielsk Podlaski	Measuring system for 10 heat power stations	Municipal Heat Power Plant	IDAM microcomputers of AXIOM, heat power counters CALEC and Multical, ASIX operator station	APS	2001
378	Power plant Jaworzno III - Jaworzno II	Heat centre control - extension over connection with IMPACT controllers	Heat centre	SIMATIC S7, communication with use of IMPACT controller protocol	ASKOM	2000
379	Power Plant Bełchatów plc	Visualization of heat distribution station	Station D-6	SIMATIC S7-300 with 2 x ASIX operator stations	ASKOM	2000
380	Heat Power Company PE Megawat Knurów	Supervisory and control system of heating station 80 MW	Heating Station	Controller Bernecker & Rainer 2005	TECHNICON	2000
381	Heat Power Company PE Megawat Knurów	Supervisory and control system of heating station 80 MW	Heating station	Controller Bernecker & Rainer 2005, ASIX operator station	el GIRO	2000
382	Municipal Heat Power Company Bielsk Podlaski	2 boilers WRp12.	Boilers	Siemens controller S7 300, SCADA system ASIX	APS	1999

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
383	Power plant Jaworzno III - Jaworzno II	Heat distribution plant, refilling water pumping plants and degasifier	Jaworzno II	2 x SIMATIC 135U with redundant PROFIBUS network, distributed ET200 stations, SINEC-DP interface with pump plant inverters, interfaces with heating counters, linked to 2 x ASIX operator stations and PC supervisory and engineering station	ASKOM	1997
384	Power Plant Łaziska	Heat distribution plant 340 MWt	Heat distribution centre	4 x SIMATIC 135U, redundant SINEC L2 network, SIMATIC S7-315, 3 x ASIX operator stations, PC supervisory and engineering station	ASKOM	1997
385	Thermal Power Plant EC Białystok	Visualization of heat flow parameters		ADAM I/O modules (ADWANTECH), ASIX operator station	APS	1997
386	Thermal Power Plant EC Miechowice	Pumping station of heating plant	Heat distribution plant	SIMATIC S5-135U, visualization via PCs of turbo generators supervisory system	ASKOM	1997
Y. POWER PLANTS – Emission monitoring						
387	Power Plant Blachownia	Emission control system		PC server of pollution emission, terminal, Beckhoff data concentrators	ASKOM	2005-2006
388	Thermal Power Plant in Ryga	Emission supervisory system of combustion gas	Boiler	Visualization and reporting software AsEmis - ASKOM production	ASKOM	2006
389	Power Plant Rybnik	Pollution emission reporting Data servers in technical network	Plant computer network	Pollution emission reporting system based upon data collected from 8 power units and stored on intermediate server EMIOS (raw data) and in SQL server (validated data)	ASKOM	2002-2005
390	INTROL Co. Ltd.	Emission visualization system	Thermal Power Plant EC Bydgoszcz 1	AsEmis - emission visualization and reporting software	ASKOM	2005
391	Power Plant Complex Dolna Odra Nowe Czarnowo	Emission monitoring	Housing Estate Boryny Szczecin	I/O Expander, operator station ASIX-WAEW	MONEKO Poznań	2004
392	Thermal Power Plant EC Kujawy	Emission monitoring	Boilers no 1, 4 i 5	2 Beckhoff I/O nodes, server ASEMIS, internet portal	ASKOM	2004
393	Power Plant Complex Dolna Odra Nowe Czarnowo	Emission monitoring	Boilers	5 emission computers D-MS 500, server ASIX, operator station, 4 terminal stations (existing system extension by 2 terminals)	MONEKO Poznań	2003
394	Power Plant Stalowa Wola	Visualization and reporting system of emission monitoring installation	Boilers 8,9,10,11,12,13	Durag-DMS emission computer, ASIX operator station, 2 network terminal	CONTROLMATIC	2002

ASIX REFERENCE LIST

ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
395	Power Plant Halemba	Visualization and reporting system of emission monitoring installation	The Whole Plant	Durag-DMS emission computer, ASIX operator station, 3 network terminal	CONTROLMATIC	2002
396	Power Plant Siersza	Visualization and reporting system of emission monitoring installation	Boilers 1-6, IOS1, IOS2	Durag-DMS emission computer, ASIX operator station, 5 network terminal	CONTROLMATIC	2002
397	Thermal Power Plant EC Wrocław	Visualization and reporting system of emission monitoring installation	Boilers KW2, KW3, KW5; K1, K2, K3	Durag-DMS emission computer, ASIX operator station, 1 network terminal	CONTROLMATIC	2002
398	Thermal Power Plant ŻERAŃ - Warszawa	Adaptation of emission reporting system in Siekierki Thermal Power Plant to new law regulations	Emission monitoring	Data acquisition from DMS, archiving in Paradox Data Base	ASKOM	2002
399	Power Plant Complex Dolna Odra Nowe Czarnowo	Emission monitoring	Boilers	5 emission computers D-MS 500, server ASIX, operator station, 2 terminal stations (existing system extension by 2 terminals)	MONEKO Poznań	2002
400	Power Plant Siekierki	Monitoring of pollution emission	4 power units	PC system interfaced to 6x DURAG emission analyzers; access to data for server SIGDATA of plant network via TCP/IP	ASKOM	2001
401	Power Plant Bełchatów plc	Monitoring of pollution emission	The whole plant	PC server linked to 3 MEVAS emission calculators, data available on plant network	ASKOM	2001
402	Thermal Power Plant EC Białystok	Monitoring of pollution emission	Heating station 1 No.	Emission server, measurements - DMS500, data export to plant network, remote reporting to government authorities	ASKOM	2001
403	Thermal Power Plant EC Białystok	Connections and data exchange between system of emission monitoring and power units control systems	Power units No. 1, 2 and 3	Simatic communications processor CP-523, serial protocol Modbus	ASKOM	2001
404	Power Plant Complex Bydgoszcz; Thermal Power Plant BYDGOSZCZ II	System of continuous emission measurements	Boiler OP230	2 emission computers D-MS 285, ASIX operator station	MONEKO Poznań	2001
405	Power Plant Complex Dolna Odra Nowe Czarnowo; Power Plant Pomorzany	System of continuous emission measurements	Benson boilers	5 emission computers D-MS 285, 2 operator station, 2 x ASIX networked terminals	MONEKO Poznań CONTROLMATIC K-ce	2001
406	Thermal Power Plant EC Pomorzany	Visualization and reporting system of emission monitoring installation	Benson Boilers A, B; denitrating and desulfurisation plants	Durag-DMS emission computer, ASIX operator station, 1 network terminal	CONTROLMATIC	2001
407	Thermal Power Plant EC Żerań	Monitoring of pollution emission	3 emitters	ASIX station interfaced to DURAG analyzer	ASKOM	2000

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ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
408	Power Plant Complex Dolna Odra Nowe Czarnowo	System of continous emission measurements, monitoring of air pollution out of the power plant area	Power unit sNo. 1-8	9 emission computers D-MS 285, 6 controllers I/O Expander, 1 operator station, 8 x ASIX networked terminals	MONEKO Poznań	2000
409	Power Plant Complex Dolna Odra Nowe Czarnowo; Power Plant SZCZECIN	System of continous emission measurements	Boilers K41 i K42	2 emission computers D-MS 285, ASIX operator station	MONEKO Poznań	2000
410	Power Plant Rybnik	Visualization of emission (measurements provided by Talas H-B and DURAG DMS-500 analyzers)	Power units No. 1 to 8	4 x ASIX monitoring stations	ASKOM	1999
411	Power Plant Łaziska	Emission visualization (data acquisition – Talas analyzers)	Power units 1 to 6, desulphurization	ASIX station	ASKOM	1999
412	Polski Koncern Naftowy ORLEN SA Plock	System of continuous emission measurements	Chimneys No. 1,2,3	3 emission computers D-MS 285, ASIX operator station	MONEKO Poznań	1999
413	Thermal Power Plant EC Białystok	Monitoring of pollution emission and heating station measurements	Heating station	SCADA system for pollution monitoring interfaced to DURAG DMS-285 emission calculator and visualization of heating station measurements using ADAM-4000 data acquisition modules	ASKOM	1998
414	Power Plant Jaworzno III	Visualization of emission (measurements provided by Talas H-B and DURAG analyzers)	5 power units	5 x ASIX monitoring stations, PC supervisory station and 2 x PC LAN terminals	ASKOM	1997
Z. POWER PLANTS - Water Power Plants						
415	Water Power Plant SOLINA	Water turbines, switchboard stations, auxiliary dam systems	4 turbines; 0.4kV, 10.5kV, 15kV switchboard stations	6 x SIMATIC S7-400, redundant fiber optic PROFIBUS, 5 x ASIX operator stations, PC supervisory and engineering station	ASKOM	2003
416	Water Power Plant SOLINA - Myczkowce	Connection of Water Power Plant to Automatic Frequency and Power Control (ARCM) system	Water Power Plant Solina	Development of existing system: 6 x Simatic S7-400 + Simatic S7-300, redundant fiber optic Profibus network, 5 operator stations (ASIX), supervisory station	ASKOM	2001
417	Water Power Plant Myczkowce	Water turbines, 04kV and 30kV switchboard stations	2 turbines, 0.4kV and 30kV switchboard stations	3 x SIMATIC S7-400, PROFIBUS network, 2 x ASIX operator stations, PC supervisory and engineering station	ASKOM	2000

ASIX REFERENCE LIST

ASKOM , Gliwice

No	Customer	Process	Object	System	Realisation	Date
418	Water Power Plant Rożnów	Water turbines and 0,4 kV switchboard stations	4 turbines, 0.4kV switchboard station	5 x SIMATIC 135U, 2 x SIMATIC S7-300, PROFIBUS network, 2 x ASIX operator stations, PC supervisory and engineering station	ASKOM	2000
AA. POWER PLANTS - Monitoring systems						
419	Power Plant Rybnik	Modernization of control system for coaling plant	Coaling Plant	2 x ASIX operator stations, operator server	ASKOM	2005
420	Power Plant Jaworzno III	Integration of ASIX Scada Systems into Power Plant Supervisory Network	Power Plant Jaworzno	AsixConnect OPC server supplying data to Supervisory Dispatcher System	ASKOM	2003
421	Power Plant Bełchatów plc	Auxiliary installations	Water Management	Server of process data, interfaces to: WinnCC, WinVIP, OPC2File. Process visualization on ASIX network stations.	ASKOM	2002
422	Power Plant Rybnik	Modernization of Dispatcher Room	Dispatcher Room	Barco Wall System ATLAS-67, graphic wall controller, process data server, computer network, interfaces to: Westinghouse, ARNE, ASIX.	ASKOM	2002
423	Power Plant Bełchatów plc	Modernization of Dispatcher Room	Dispatcher Room	Graphic Wall Controller (6 plasma monitors) based on ASIX software, visualization of the whole Power Station	ASKOM	2002
BB. POWER PLANTS – Power unit automation systems						
424	Thermal Power Plant EC Białystok	Power unit - 1 x turbine set 50 MW, 2 x OP-140 boilers	Power Unit No. 1	SCADA system modernization based on ASIX software; 4 operator stations, data server for plant wide network, 5 remote workstations in plant network	ASKOM	1999
CC. OTHERS						
425	Feed Works WIPASZ Olsztyn	Control system of grain transport		ASIX operator station, connection to stock management system	P.H.U. CEL Gdańsk	2002
426	EATON Truck Components S.A.	Supervisory system of chamber dryer		Simatic controller S7-300, panel OP3, ASIX operator station	DELTA CONTROL	2001
427	Regional Education Centre Bielawa	Control system of solar battery stations		Mitsubishi MELSECA FX2N, serial connection to ASIX operator station	ENERGOPROJEKT K-ce SA	2000