
Chemicals

Project references

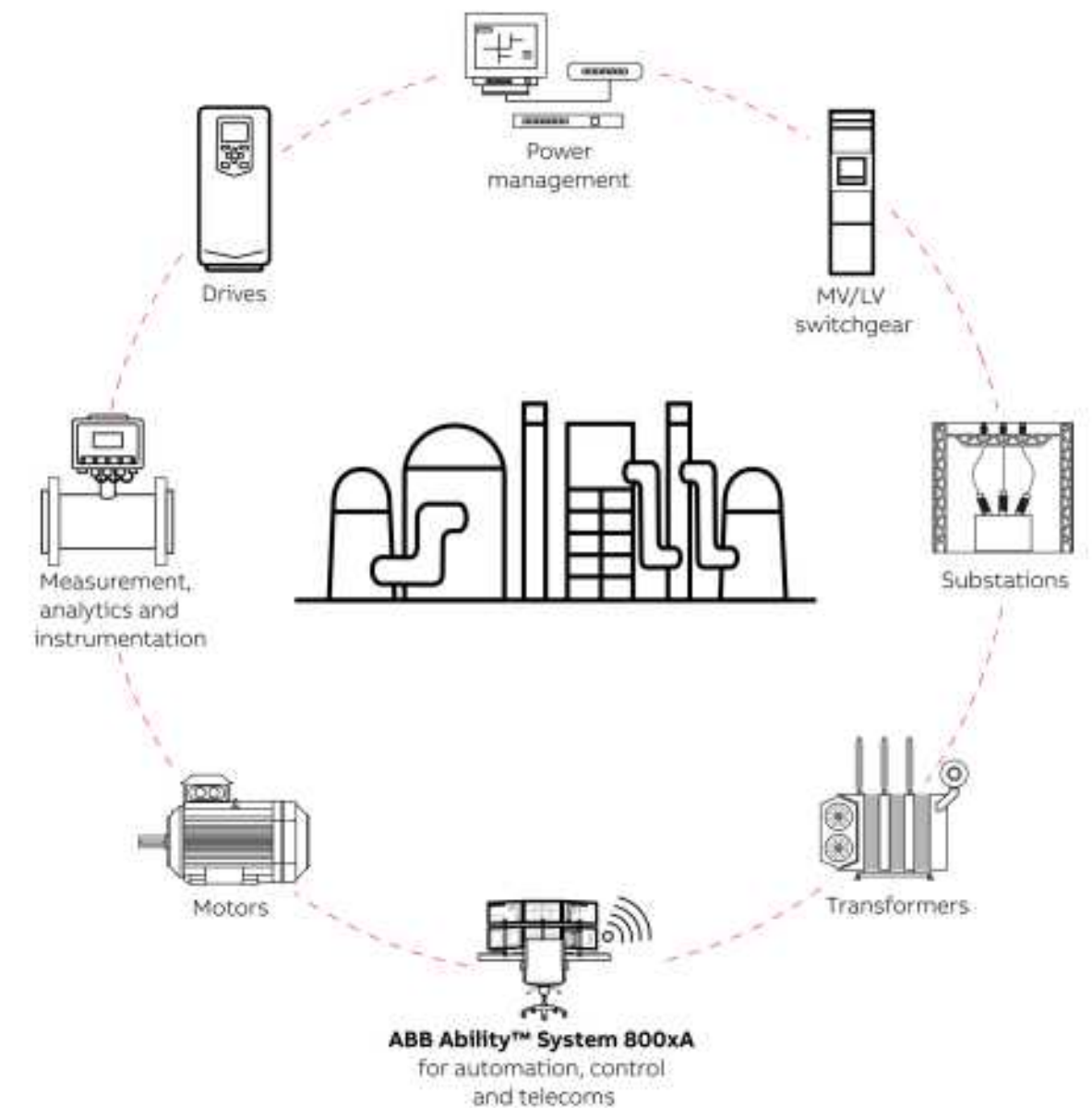


ABB Inc.
3700 West Sam Houston Parkway South
Houston, Texas 77042
Phone: +1 713 587 8146
Fax: +1 713 821 3911

www.abb.com/chemical

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Plant-wide solutions to optimize productivity, energy efficiency and safety



Client / EPC or SI	Country	Application	NAICS	Chemical Category	Start-up
Petrochemicals					
Haldor Topsoe	DK	Skid mounted compact hydrogen unit (HTCR type)	325120	Industrial Gases	2012
Haldor Topsoe	DK	Skid mounted compact hydrogen unit (HTCR type) in methanol plant M-450	325120	Industrial Gases	2012
IRPC	TH	Nitrogen plant at the Utility 1 (UT1)	325120	Industrial Gases	2008
Linde Engineering Co., Ltd	CN	Furnace control	325120	Industrial Gases	2009
Linde Kryotechnik AG	DE	H2 liquefaction plant	325120	Industrial Gases	2008
Messer Group	ES	Air separation plant	325120	Industrial Gases	2008
Petrobras Petrochemicals	AR	TSA (Temperature Swing Adsorption) plant	325120	Industrial Gases	
PTT Chemical	TH	Gas Processing Complex	325120	Industrial Gases	2009
Solvay	DE	SF6 plant	325120	Industrial Gases	2007
Thai Petrochemical Industry	TH	Nitrogen process plant	325120	Industrial Gases	2007
Yara Praxair	NO	Air separation plant	325120	Industrial Gases	1998
Alkalies & Chlorine					
Aluar S.A.I.C.,	AR	Load Shedding & SOE Control System for 33KV Switchgear and Rectifier Unit	325181	Alkalies & Chlorine	
Arabian Alkali Company	SA	Caustic soda plant	325181	Alkalies & Chlorine	2008
Arabian Chlor Vinyl Company	SA	Electrical monitoring of MV substation for integrated chlor-alkali complex	325181	Alkalies & Chlorine	2012
Arvand Petrochemical Company	IR	Chlor-alkali plant & brine saturation, EDC / VCM (combined) plant, S-PVC and E-PVC plants	325181	Alkalies & Chlorine	
BASF SE	DE	Chlor-alkali plant no. 3	325181	Alkalies & Chlorine	2008
Canexus Chemicals	CA	Chlor-alkali plant	325181	Alkalies & Chlorine	2010
Dow Mitsui Chlor-Alkali LLC	US	Chlor-alkali (caustic soda and chlorine) complex "Chlorine 7"	325181	Alkalies & Chlorine	2013
Shandong Haitian Bio-Chemical Co.	CN	1,000,000 t/yr pure alkali production	325181	Alkalies & Chlorine	2008
Kemira	AR	New chlorine dioxide plant	325181	Alkalies & Chlorine	2008
Kemira	SE	New chlorine dioxide plant	325181	Alkalies & Chlorine	2010
Olin Chemicals	US	Evaporator in chlor- alkali production, Truck loading and 800xA training system	325181	Alkalies & Chlorine	
Olin Chemicals	US	Evaporator Process	325181	Alkalies & Chlorine	
Shanghai HuaSheng Chemical Co.	CN	New site with 36,000 t/yr caustic soda and 30,000 t/yr VCM plant	325181	Alkalies & Chlorine	
Vestolit GmbH & Co	DE	Large fully integrated PVC production plants	325181	Alkalies & Chlorine	
Zhongyanyilantai Salt Chemical Group	CN	Chlor-alkali electrolysis for 400k t/yr PVC production	325181	Alkalies & Chlorine	2007
Basic Inorganic Chemicals					
Anglogold Ashanti Mineração	BR	New sulphuric acid plant for own use in gold production but also for sale	325188	Basic Inorganic Chemicals	2006
Arkema	FR	Production of chlorine specialties e.g. sodium perchlorate and ammonium perchlorate, a powerful oxidizing agent	325188	Basic Inorganic Chemicals	2007
Atanor S.A.	AR	Oxygenated Water Plant (H ₂ O ₂)	325188	Basic Inorganic Chemicals	
BASF SE	DE	Integrated MSH complex (SO ₂ /SO ₃ sulfur dioxide ... trioxide)	325188	Basic Inorganic Chemicals	2008 & 2011
BASF	US	Manufacturing of Ni-Co-Mn cathode materials for Li-Ion batt	325188	Basic Inorganic Chemicals	2012-2014
Canexus Chemical	CA	Sodium Chlorate plant	325188	Basic Inorganic Chemicals	2008
ChemKuwait	KW	Sulphuric acid plant	325188	Basic Inorganic Chemicals	2010
CRI Catalyst Company	US	Catalyst plant	325188	Basic Inorganic Chemicals	2008
Eka Chile S.A.	CL	Sodium chlorate plant	325188	Basic Inorganic Chemicals	2004
Elkem Bjølvefossen	NO	Induction furnace of a 2.5 t silicon metal smelter	325188	Basic Inorganic Chemicals	
Elkem Solar	NO	Silicon production for solar cell industry	325188	Basic Inorganic Chemicals	2009
Erachem	US	Alkaline Manganese production	325188	Basic Inorganic Chemicals	
Haldor Topsoe	DK	Wet-gas sulphuric acid condenser unit (WSA) from Haldor Topsoe	325188	Basic Inorganic Chemicals	
Logística de Químicos del Sur S.A.	PE	New sodium hydrosulfide (NaSH) storage and dispatch / tank farm	325188	Basic Inorganic Chemicals	2007
MEMC Electronic Materials SpA	IT	Polysilicon manufacturing complex	325188	Basic Inorganic Chemicals	2009-2011
Kemira Oyj	FI	Loading terminal / tank farm for sulfur dioxide	325188	Basic Inorganic Chemicals	2006
Millennium Inorganic Chemicals	BR	Titanium Dioxide plant	325188	Basic Inorganic Chemicals	
NCIC	EG	Sulphuric acid plant	325188	Basic Inorganic Chemicals	2007
NCIC	EG	Potassium sulfate production plant	325188	Basic Inorganic Chemicals	2007
NEFAS	SA	Potassium sulfate production plant	325188	Basic Inorganic Chemicals	2007

Automation

800xA	Freelance	Integr. safety	Batch Mgmt.		Other	Ext.Apprv
X						
X						
X				X	Replacing ABB DCS MOD300 using Sentinel subscripton	X
X						
X	X					
	X					
		X				
X				X		
		X				
X				X	Replacing Siemens S5 PLC	
	X					
X				X	Integrated with MicroSCADA	
X				X	Revamp ABB DCS Advant / MOD300	
X						
	X				3x systems	
X				X	Replacing ABB DCS Maestro UX	X
X		X		X	Replacing ABB DCS Harmony (Sentinel)	
X		X			GIS and power & distribution transformers	X
	X					
X						
X				X		
X						
X						
X						
X						
X				X	Replacing ABB DCS Master	
	X					
X				X		
X					Replacing ABB DCS MOD300 replacing Schneider PLC and HIMA fail-safe PLC	
X		X				
X						X
X					MAV	X
X		X		X	Connecting to ABB DCS Harmony (Sentinel)	
X				X	Replacing ABB DCS Advant OCS	
X				X	Replacing operator level ABB DCS MOD300 (Sentinel)	
X				X	Modernizing ABB DCS MOD300	
X						
X		X			LV package	
X						
X		X				
					Compact 800	
X		X		X	Replacing ABB DCS Contronic P	
X					ABB drives, MCC and instrumentation	
X				X	Revamp ABB Advant	
	X					
	X					
	X					

Client / EPC or SI	Country	Application	NAICS	Chemical Category	Start-up
OMG	GB	Cobalt Carboxylates plant	325188	Basic Inorganic Chemicals	
Petrobras Energia	AR	Ammonium thiosulfate production	325188	Basic Inorganic Chemicals	2004
Pooyesh Petrochemical Company	IR	Hydrogen peroxide pilot plant	325188	Basic Inorganic Chemicals	
Wacker Chemie AG	DE	Production line "Poly 9" with 15,000 t/yr in polysilicon complex	325188	Basic Inorganic Chemicals	2011
Yunnan Three Circles Chemical Co.	CN	Sulphuric acid production, 1.2mio t/yr	325188	Basic Inorganic Chemicals	2006
Yunnan Three Circles Chemical Co.	CN	Sulphuric acid production, 600k t/yr	325188	Basic Inorganic Chemicals	2007
Yunnan Xinli Non-Ferrous Metal Co.	CN	High TiO2 Slag Smelting plant 80,000 t/yr	325188	Basic Inorganic Chemicals	2008
Cyclic Crudes and Intermediates					
BASF SE	DE	DNT-MNT / TDA Toluidine Plant	325192	Cyclic Crudes and Intermediates	2009
BASF SE	DE	Poly-Isocyanates plant Basonat® hardener for polyurethane (PUR) coatings	325192	Cyclic Crudes and Intermediates	2009
BASF Chemicals Co. Ltd. (BACH)	CN	Poly-Tetrahydrofuran (PTHF/THF) and poly-isocyanate (Basonat®) plant	325192	Cyclic Crudes and Intermediates	2003 & 2009
BASF	CN	MDI (methylene diphenyl diisocynate) complex with 5 plants	325192	Cyclic Crudes and Intermediates	2014
BASF	KR	TDI, DNT + CCD complex	325192	Cyclic Crudes and Intermediates	2003
BASF	KR	TDI, DNT + CCD complex	325192	Cyclic Crudes and Intermediates	2008
Huntsman	HU	Performance products manufacturing	325192	Cyclic Crudes and Intermediates	
IRPC	TH	Poly Toluene Catalyst (PTK) batch plant	325192	Cyclic Crudes and Intermediates	2008
Ethyl Alcohol					
Acciona Biocombustibles	ES	Biodiesel plant	325193	Ethyl Alcohol	2008
Alberta Envirofuels	CA	Integration of electrical control system with process control for Isooctane production	325193	Ethyl Alcohol	2012
Biox Corporation	CA	Biodiesel production	325193	Ethyl Alcohol	2006
CropEnergies	DE	Bio-ethanol and bio-diesel plant, 260,000 m³/yr	325193	Ethyl Alcohol	2005
Hexion / Momentive	IT	Methanol and Biodiesel production	325193	Ethyl Alcohol	2010
Mae Sod Clean Energy Co.	TH	Producing bio fuels (alcohol) out from molasses. Control of fermentation, distillation, concentration, dehydration, cooling tower and auxiliaries' processes	325193	Ethyl Alcohol	2008
Natural Energy West GmbH	DE	Biodiesel and Glycerine production	325193	Ethyl Alcohol	2008
National Bio Energy	SE	Generation bio-ethanol pilot plant	325193	Ethyl Alcohol	2009
NovoZymes	US	Production of enzymes for bioethanol production	325193	Ethyl Alcohol	2010
Petro Green Co., Ltd.	TH	Bio-ethanol plant ethanol from molasses. Control of fermentation, distillation, concentration, dehydration, cooling tower and auxiliary processes.	325193	Ethyl Alcohol	2006
Petro Green Co., Ltd.	TH	Bio-ethanol plant (3rd project with this client)	325193	Ethyl Alcohol	2007
Stt Biofuels Oy	FI	Bio-ethanol plant			2007
Thai Agro Energy Plc	TH	Bio-ethanol and biogas plant (from sugar cane bagasse)	325193	Ethyl Alcohol	2004
All Other Basic Organic Chemicals					
Atanor	AR	Formaldehyde (Formol) plant	325199	All Other Basic Organic Chemicals	
Atanor	AR	Formal II	325199	All Other Basic Organic Chemicals	2006
Atanor S.A.,	AR	Ethyl acetate plant	325199	All Other Basic Organic Chemicals	2004
Atanor S.A.,	AR	Acetic acid	325199	All Other Basic Organic Chemicals	
BAE Systems	GB	Acids plant	325199	All Other Basic Organic Chemicals	2004
BASF Chemicals Co. Ltd.	CN	Poly-Tetrahydrofuran (PTHF/THF) and poly-isocyanate (Basonat®) plant.	325199	All Other Basic Organic Chemicals	2003 & 2009
BASF SE	DE	Methylglycinediacetic Acid (MGDA) plant, Trilon M®	325199	All Other Basic Organic Chemicals	2009
BASF SE	DE	Methylglycinediacetic Acid (MGDA) plant, Trilon B®	325199	All Other Basic Organic Chemicals	2011
BASF	US	Diols (glycols) complex with 7 process plants / units	325199	All Other Basic Organic Chemicals	2012
BASF SE	DE	Adipic acid plant	325199	All Other Basic Organic Chemicals	2012
Cognis Oleochemicals	MY	Packaging end of Fatty Acid plant	325199	All Other Basic Organic Chemicals	2007
CP Kelco	DK	Production of pectin, carrageenan and refined locust bean gum	325199	All Other Basic Organic Chemicals	

Automation				Migration	Electrification	Instrumentation	Process Analytics	Services		
800xA	Freelance	Integr. safety	Batch Mgmt.						Other	Ext.Apprv
X			X							
X										
	X									
X		X								
	X									
	X									
X										X
X										X
X										X
X							X		MAV / Interfaces to fail-safe PLCs (HIMA)	X
X							X		MAV	X
									MAV+MEV/ 3x ABB DCS Symphony	X
X					X				Replacing ABB DCS Symphony	X
	X									
X			X	X					ABB DCS MOD300	
	X									
X						X				
X										
X						X			MAV+MEV	
X			X	X					Replacing ABB DCS DCI System Six (Sentinel)	
X										
	X		X							
X									With electrical drives (VSD) and motors	
X									MCC	
									Compact 800	
X										
X										
X					X				Revamp of ABB heritage DCS Kent P4000	
X							X		MAV System	X
X						X				X
X					X				Replacing ABB DCS Symphony	X
X			X	X					Replacing NovaTech/GSE DCS "D/3"	X
X				X					Replacing ABB DCS Maestro UX	X
				X					Compact 800 replacing Siemens S5 PLC solution	
X				X					Replacing Wonderware InTouch HMI/SCADA	





Client / EPC or SI	Country	Application	NAICS	Chemical Category	Start-up
Chevron Phillips Chemical Co.,	US	Low density PE (LDPE) plant	325211	Plastics Material and Resins	2008 & 2009
Cray Valley	IT	Polyester production plant	325211	Plastics Material and Resins	2011
Dow AgroSciences	IT	Uniform particle size copolymers plant	325211	Plastics Material and Resins	2011
Dow Chemical Company	ES	Octene Production plant	325211	Plastics Material and Resins	2005
DOW Olefinverbund GmbH	DE	Ethylene cracker	325211	Plastics Material and Resins	2008
DSM NeoResins	ES	Resins production	325211	Plastics Material and Resins	
DSM Resins	TW	Resins production	325211	Plastics Material and Resins	2009
DuPont	US	Plastic film production (QSC application)	325211	Plastics Material and Resins	
DuPont	GB	Polyester (PE) production	325211	Plastics Material and Resins	
Eastman Chemical	NL	Resin	325211	Plastics Material and Resins	-2016
Formosa Plastics Corporation	CN	Polystyrene plant	325211	Plastics Material and Resins	2005
Formosa Chemical & Fiber Corp.,	TW	Polystyrene plant PS3	325211	Plastics Material and Resins	
Formosa Chemical & Fiber Corp.	VN	Polymerization unit, recovery unit, spin machines control, and utilities for nylon fiber plant	325211	Plastics Material and Resins	2010
Georgia Gulf Corporation	US	18 reactors, batch control	325211	Plastics Material and Resins	2002
Grupo IDESA Petroquímica	MX	Polystyrene Lines 130 & 140	325211	Plastics Material and Resins	2008
Huntsman	GB	Polyurethane production	325211	Plastics Material and Resins	
INEOS ChlorVinyls	GB	Vinyl Production	325211	Plastics Material and Resins	
Lubrizol	US	Batch chlorination, liquid & dry product blending	325211	Plastics Material and Resins	
Lucite International	SG	Methyl Methacrylate	325211	Plastics Material and Resins	2008
LyondellBasell	DE	High density polyethylene (HDPE) pproduction	325211	Plastics Material and Resins	2007
NOVA Chemicals	NL	Polystyrene production line	325211	Plastics Material and Resins	2005
NOVA Chemicals	US	Polystyrene / 30% Polyethylene Interpolymer)	325211	Plastics Material and Resins	
Noveon	US	Specialty polymer pilot plant	325211	Plastics Material and Resins	
PA Resins	SE	Phenolic and amino resin	325211	Plastics Material and Resins	2007
PetroChina	CN	Polyethylene Unit	325211	Plastics Material and Resins	
Petroquímica Cuyo	AR	Polypropylene (PP) plant	325211	Plastics Material and Resins	2006
Polimeri Europa	IT	Polyethylene plant	325211	Plastics Material and Resins	
Pooyesh Petrochemical Company	IR	High Density Polyethylene (HDPE) Pilot Plant	325211	Plastics Material and Resins	
PTT Chemical	TH	Ethylene / Propylene complex	325211	Plastics Material and Resins	2009-2012
Qenos Plastics Manufacturing	AU	Polymer manufacturing	325211	Plastics Material and Resins	2006
Revertex Chemicals (Pty) Ltd	ZA	Monomer (Plastics) Production	325211	Plastics Material and Resins	2007
Styrolution	SE	Polystyrene production	325211	Plastics Material and Resins	2003
Tarkett	SE	Production of plastic floors, blending station	325211	Plastics Material and Resins	
Senmin	ZA	Tailing Treatment Polymers plant expansion	325211	Plastics Material and Resins	2008
Senmin	ZA	Xanthate* production expansion	325211	Plastics Material and Resins	2008
Sichuan Chemical Works Ltd.	CN	Melamine plant	325211	Plastics Material and Resins	
Thai Petrochemical Industry	TH	Polypropylene (PP) plant	325211	Plastics Material and Resins	
Titan Chemicals	MY	Polyethylene Terephthalates (PET) plant	325211	Plastics Material and Resins	2006
Total Petrochemical	FR	linear polyethylene production plant	325211	Plastics Material and Resins	2009
Victrex Limited	GB	Polyether Ether Ketone (PEEK) polymer manufacturing	325211	Plastics Material and Resins	

Automation				Migration	Electrification	Instrumentation	Process Analytics	Services		
800xA	Freelance	Integr. safety	Batch Mgmt.						Other	Ext.Apprv
X					X				Replacing ABB heritage DCS MOD300	
		X							ABB DCS Industrial IT	
X		X			X				Replaces heritage ABB DCS Contronic P	X
X		X								X
X		X			X				Upgrading Contronic P solution with Maestro UX	
									ABB DCS Industrial IT	
X					X				Upgrading and expanding heritage ABB DCS System Six using Sentinel	
X										
X										
X					X				Replacing DCI System Six	
X										
									ABB Advant OCS / MOD300	
X	X									
X			X						Front End Engineering Design (FEED) study	
	X									
									ABB DCS	
X										
X			X							
X					X				For Melody HSI revamp/modernization	
X		X								
X			X							
X			X		X				Upgrading Emerson RS 3 system	
									ABB Advant OCS / MOD300	
X										
X										
	X									
X					X				Replacing ABB heritage DCS Harmony Infi 90 (Sentinel)	
X					X				Replacing ABB heritage DCS MOD300	
	X		X							
X									Upgrading ABB heritage DCS Advant OCS	
X			X		X				Replacing Siemens S5 PLC	
			X							
	X									
	X									
									ABB Advant OCS / MOD300	
X		X			X				Upgrading ABB heritage DCS Harmony consoles	
X			X		X				Revamping ABB heritage DCS Advant / MOD300	
X		X				X				

Client / EPC or SI	Country	Application	NAICS	Chemical Category	Start-up
Pesticides, Herbicides & Agrochems					
Atanor S.A. / Albaugh Inc.	US	Production of pesticides (in parts a copy of Atanor’ s Pilar plant in Argentina)	325320	Pesticides, Herbicides & Agrochems	2005
BASF SE	DE	Strobilurine (fungicide) "BAS500F" plant	325320	Pesticides, Herbicides & Agrochems	2002 & 2009
Cheminova	DK	Production of Pesticides and Insecticides	325320	Pesticides, Herbicides & Agrochems	
Clariant	DE	Pesticide production	325320	Pesticides, Herbicides & Agrochems	
Paints & Coatings					
Alcro-Beckers	SE	New production site for water and latex based paint	325510	Paints & Coatings	
Asian Paints Ltd.	IN	New plant for water- and solvent-based, and machine paint	325510	Paints & Coatings	
BASF	AU	Dispersions complex	325510	Paints & Coatings	2008
BASF	CN	XSB and acrylate dispersion plant "Flores", 100k t/yr	325510	Paints & Coatings	2012
BASF	CN	Coating / paint manufacturing plant (waterborne basecoat)	325510	Paints & Coatings	2013
BASF SE	DE	Polymer dispersions for paper industry	325510	Paints & Coatings	2000
BASF SE	DE	Mixing and milling of dispersions	325510	Paints & Coatings	2008
BASF	ID	Ethylene dispersion plant	325510	Paints & Coatings	2003
Blanchon-Syntilor	FR	Paints and varnish production	325510	Paints & Coatings	
Brillux Paint	DE	Paint plant and tank farm	325510	Paints & Coatings	2003-2004
Clariant	MX	Emulsion plant	325510	Paints & Coatings	
Finndisp	FI	Polymer dispersion plant with 4 process lines	325510	Paints & Coatings	
ICI Glidden Paints	US	Blending line for paints	325510	Paints & Coatings	
Lubrizol	CN	Latex/Urethane plant	325510	Paints & Coatings	2008
Adhesives					
AkzoNobel Casco Adhesives	SE	Adhesives production	325520	Adhesives	2010
Dynea	GB	Urea-Formaldehyde (UF) resins and adhesives production	325520	Adhesives	
ICAP-SIRA Chemicals and Polymers	IT	Adhesives production	325520	Adhesives	2009
SPREA MISR	EG	Dry UF Glue production	325520	Adhesives	2008
SPREA MISR	EG	Urea Formaldehyde resins production	325520	Adhesives	2009
Xerox Corp.	US	Emulsion Aggregation (EA) Toner production plant	325520	Adhesives	2007
Toilet Preparation Manufacturing					
Cosmetics	ZA	Cosmetics production	325620	Toilet Preparation Manufacturing	
Riemann & Co	DK	Aluminum oxide plant for antiperspirant products	325620	Toilet Preparation Manufacturing	2006
Explosives					
Societe Suisse des Explosifs (SSE)	CH	Pentaerythritoltetranitrat (Nitropenta or PETN) production	325920	Explosives	2007
All Other Miscellaneous Chemical Product and Preparation Manufacturing					
BASF SE	DE	Carotenoid "Panton" plant, pro-vitamin A (beta-carotene), lycopene and lutein	325998	Other Misc. Chemicals	2008 - 2012
Bayer	AR	Healthcare	325998	Other Misc. Chemicals	2000
Columbian Chemicals	BR	Turbo generator (supplied by ABB) in a co-generation plant of a chemicals production complex	325998	Other Misc. Chemicals	
DSM Nutritional Products	DE	Fine chemicals production	325998	Other Misc. Chemicals	2010-2011
Process Analyser Solutions					
BASF / FINA (JV)	US	Naphta Steam Cracker	325110	Petrochemicals	
SBPC and SLIC	CN	Integrated Isocyanates (MDI/TDI) complex	325211	Plastics & Resins	
Victrex Limited	GB	Polyether Ether Ketone (PEEK) polymer manufacturing	325211	Plastics Material and Resins	

Automation				Migration	Electrification	Instrumentation	Process Analytics	Services		
800xA	Freelance	Integr. safety	Batch Mgmt.						Other	Ext.Apprv
X			X							
X				X					Replaces ABB heritage DCS Symphony	X
X				X					Replace heritage ABB DCS MasterView operator workplaces	
	X									
X			X			X				
X									And CPM (MES)	
X				X					Partial ugrade of ABB heritage DCS Infi90	X
X										X
X			X						And LV MCCs	X
									ABB DCS Industrial IT	X
	X									X
X										X
X			X							
X										
X			X	X					Replacing Omron PLC	
X										
X				X					Replacing Freelance DigiBatch system and IP21, and new Freelance controllers	
X			X	X					Replacing ABB heritage Sattcon system	
X			X	X					Replacing operator level of ABB heritage DCS DCI System Six (Sentinel)	
	X									
	X									
X			X							
	X		X							
X									Replacing heritage ABB DCS Maestro UX / Contronic P	X
X			X	X					Replacing ABB heritage DCS Advant OCS	
X				X					Upgrade of ABB heritage Advant OCS	
X				X					Replacing heritage ABB DCS Contronic P (Sentinel)	
							X		ABB Process Analyzer systems	X
							X		Process Analytical Systems	X
X		X			X	X	X			



Client / EPC or SI	Country	Application	NAICS	Chemical Category	Start-up
Advanced Control Solutions					
AdvanSA	GB	Pure Terephthalic Acid (PTA) plant, 550,000 t/yr, secondary Oxidation Control and stable control of Crude TA slurry for PTA production	325211	Plastics Material and Resins	
TVK	HU	Polyolefins	325110	Petrochemicals	
MAV/MAC & MEV/MEC					
Alcro-Beckers	SE	New production site for water and latex based paint			
BASF Chemicals Co. Ltd. (BACH)	CN	Poly-Tetrahydrofuran (PolyTHF) and poly-isocyanate (Basonat®) plant			2003 & 2009
BASF-YPC Co. (BYC)	CN	"IP52" expansion of Integrated Project Site (complex with steam cracker and 9 plants) with 10 new plants			2010
BASF	CN	MDI (methylene diphenyl diisocyanate) complex with 5 plants			2014
BASF SE	DE	Methylglycinediacetic Acid (MGDA) plant, Trilon M®			2009
BASF	KR	TDI, DNT + CCD complex			2003
BASF	US	Manufacturing of Ni-Co-Mn cathode materials for Li-ion batt			2012-2014
CropEnergies	DE	Bio-ethanol and bio-diesel plant, 260,000 m³/yr			2005
LDK Solar Co. Ltd.	CN	2nd Polysilicon / trichlorosilane (TCS) plant	NAICS 325188	Basic Inorganic Chemicals	
MTP HPPO Manufacturing Company	TH	Hydrogen-peroxide-to-propylene oxide (HPPO) production	325199	All Other Basic Organic Chemicals	2011
Sadara Chemical Company	SA	Largest petrochemical complex ever built	325199	All Other Basic Organic Chemicals	2015
Sappi	ZA	Pulp production in the world's largest chemical cellulose plant			2008
Sociedad Quimica y Minera de Chile	CL	Potassium Nitrate plant			2010
Victrex Limited	GB	Polyether Ether Ketone (PEEK) polymer manufacturing			
ABB Full Service™					
Braskem	BR	Petrochemicals and Vinyl production units	325211	Plastics Material and Resins	
PolymerLatex	GB				
Solvay Indupa	BR	Caustic Soda, Chlorine, VCM, PVC and HDPE			
Global Consulting: Engineering Services					
INEOS ChlorVinyls	GB	New Sodium Hypochlorite storage and loading facility			
Sociedad Quimica y Minera de Chile	CL	New Potassium Nitrate plant with production capacity 400k t/yr			2010
Others					
BASF SE	DE	Azole	325xxx	Azol	2012
Petroleum Refineries					
Amreya Petroleum Refining Company	EG	Distillation plant	324110	Petroleum Refineries	
S-Oil	KR	Alkylation & SAR	324110	Petroleum Refineries	2009
Pharmaceutical and Med. Manuf.					
Aesica Pharmaceuticals	UK	Flurbiprofen	32541x	Pharmaceutical and Med. Manuf.	
Fermas s.r.o.	SK	L-Tryptophan	32541x	Pharmaceutical and Med. Manuf.	2007
Gedeon Richter Ltd.	HU	Biotech	32541x	Pharmaceutical and Med. Manuf.	2005 & 2006
Gedeon Richter Ltd.	HU	Biotech	32541x	Pharmaceutical and Med. Manuf.	2010
Janssen	IE	Active Pharmaceutical Ingredients	32541x	Pharmaceutical and Med. Manuf.	2008
Leo Pharma	DK	Pharmaceutical active ingredient	32541x	Pharmaceutical and Med. Manuf.	2006
Merck, Sharp and Dohme Ltd.	IE	Pharmaceuticals	32541x	Pharmaceutical and Med. Manuf.	
Merck, Sharp and Dohme Ltd.	IE	Pharmaceuticals	32541x	Pharmaceutical and Med. Manuf.	
Sandoz Industrial Products	IT	Pharmaceutical application	32541x	Pharmaceutical and Med. Manuf.	2010
Artificial and Synthetic Fibers and Filaments Manuf.					
Asahi Kasei Corporation	US	Dorlasthan	32522x	Artificial and Synthetic Fibers and Filaments Manuf.	
Research/Training Center					
Dow Chemicals	IN	Engineering and R&D			2008
North Carolina State University	US	Biotechnology training center			2007

Automation				Migration	Electrification	Instrumentation	Process Analytics	Services		
800xA	Freelance	Integr. safety	Batch Mgmt.						Other	Ext.Apprv
									Replacing operator	
									ABB MOD300 DCS and on-line process analysers	
									Advanced Control on ABB MOD300 DCS	
X			X			X				
X							X		MAV	X
							X		MEV and MPAV	X
X					X		X		MAV incl. System 800xA (red.)	X
X						X				X
					X				MAV + MEV 83x ABB DCS (Symphony)	X
					X	X			MAV with System 800xA (red.)	X
X					X	X			MAV + MEV	
					X				MEC package	
X			X		X				800xA Simulator and LV electrical package	
									Main Automation Contract (MAC)	
X					X					
X				X	X				Engineering & Procurement and Construction (EPC) incl. MAV + MFV	
X		X			X		X			
								X	ABB Full Service® Contract	
								X	ABB Full Service® Contract	
								X	ABB Full Service® Contract	
								X	ABB Engineering Services	
								X	Engineering & Procurement and Construction (EPC) incl. MAV + MEV	
X				X					Replacing Honeywell (AC870P)	
X				X					Upgrading ABB heritage MOD300	
X			X							
X			X	X					For ABB heritage DCS MOD300	
X										
X			X							
X			X							
X				X					Replacing Emerson RS3 DCS system & 10 Klockner Moeller PLC systems	
X			X	X					Upgrading ABB SattLine	
					X				Upgrading ABB heritage DCS Advant MOD300	
X				X					Replacing Multibus consoles	
X			X	X					Upgrading Conductor NT/ Chemflex (DCI)	
X				X					Migrating the Emerson Provox system	
X			X							
X			X			X	X			