

OIL, GAS AND CHEMICALS

Advanced Process Control References

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Customers with a service agreement may contact our dedicated Service Desk on a separate number.



Advanced Process Control References



Year	Customer	Site	Country	Area
2016	Saras	Sarroch	Italy	Refinery
2016	Lotte Chemicals/Versalis	Yeosu	Korea	Petrochemical
2016	SEA	Malpensa	Italy	Power Plant
2016			Italy	Power Plant
2015	UIPSA	Spain	Spain	P&P
2015	ERG Power	Priolo	Italy	Refinery Power Unit
2015	Saras	Priolo	Italy	IGCC
2015	Versalis ENI	Ferrara	Italy	Petrochemical
2015	Sasol Chemical	Sarroch	Italy	Petrochemical
2015	Enel	TorreValdaliga	Italy	Power Plant
2014	ILVA Taranto	taranto	italy	Metal Plant
2014	Lukoil Isab	Priolo	Italy	Refinery
2014	Versalis ENI	Ferrara	Italy	Petrochemical
2014	Cellulosa Argentina	Argentina	Argentina	P&P
2014	Cementi rossi	Piacenza	Italy	Cement
2013	ERG Power	Priolo	Italy	Refinery
2013	Mondi	Priolo	Italy	Refinery
2013	Chinese Petroleum Co.	Chia-Yi	Taiwan	Petrochemical
2013	COPROB	Padova	Italy	Food&Beverage
2013	SAPPI 2 - Saiccor	Durban	South Africa	P&P
2013	Isab Energy	Priolo	Italy	Refinery
2012	Versalys (ENI)	Marghera (Venice)	Italy	Petrochemical
2012	Mondi	Swiecie	Poland	P&P
2012	SAPPI 2	Ngodwana	South Africa	P&P
2012	SCA	Sundsvall	Sweden	P&P
2012	Isab Energy	Priolo	Italy	Refinery
2012	ITRI R&D team	Seul	Taiwan	Petrochemical
2011	ERG Power	Priolo	Italy	Refinery
2011	Zellstoff Celgar	Castlegar	Canada	P&P
2011	Twin Rivers	Edmondston	Canada	P&P
2011	Twin Rivers	Edmondston	Canada	P&P
2011	International Paper (Pensacola)	Cantonment	USA	P&P
2011	ENI SanNazzaro	San Nazzaro dei Burgundi	Italy	Refinery
2011	Versalys (ENI)	Marghera (Venice)	Italy	Petrochemical
2010	Isab Energy	Priolo	Italy	Refinery
2010	Zellstoff Celgar	Castlegar	Canada	P&P
2010	Isab Energy	Priolo	Italy	Refinery
2009	Isab Energy	Priolo	Italy	Refinery

Unit	Technical details	DCS
IGCC e AGR	APC for production optimization	ABB 800xA
EPDM plant	Production Optimization - Train 1 & 2	Yokogawa
Power Plant	Production Optimization for Energy Market	Inf90
DeSOx Optimization	Emission control optimization	ABB 800xA
Powerhouse Boiler and Turbine coordination	APC for steam and boiler optimization	ABB 800xA +GE
Steam network optimization	APC for steam optimization	Inf90+ Invensys
Gasifiers/Combined Cycles Coordination	APC for production optimization	Melody+ ABB 800xA
EPDM plant	Production Optimization - Production train 4	ABB 800xA
Molex optimization	Coordination of multiple separation columns	ABB 800xA
SCR optimization	SCR NH3 optimization	ABB 800xA
Blast furnaces/LD Converters/Power plant	Coordination of furnaces and power plants	Siemens S7 & ABB Bailey
Power Plant Load optimizer	Power in Refinery	ABB Melody
EPDM plant	Production Optimization - Production trains 1,2, 3	ABB Inf90
Pulp Plant	Pulp plant optimization	ABB 800xA
Furnace+ Kiln	Cement plant	Inf90+ Siemens S7
Boiler management	Boiler control and optimization	Invensys
SCR NH3 optimization	SCR NH3 optimization	ABB
Refining & Manufacturing Research Institute	SW license for R&D	ABB
Sugar production	APC for steam and boiler optimization	Siemens S7
Boiler control	Coordinated Boiler-Turbine control	ABB
Power Plant de-gassing unit	Part of combined cycle IGCC	ABB Melody
Ethylene	Furnace Severity Control	Honeywell TDC3000
(Continuous Diester + Washing)*2 lines	(Continuous Diester + Washing)*2 lines	ABB
Boiler control		
Lime Kiln		ABB
Refinery Utility	Hot Oil Furnace	
R&D	SW license for R&D	
Multiple power plants	Coordination of multiple power plants	
Black liquor evaporators	Black liquor evaporators	
Scrubber	Scrubber	
Red liquor evaporators	Red liquor evaporators	
Powerhouse Boiler and Turbine coordination	Powerhouse Boiler and Turbine coordination	
PEMS	PEMS for: Sulfur removal, FCC, Belco	
Ethylene	APC Main Fractionator	Honeywell TDC3000
IGCC Master Control	IGCC coordination of 2 Gassification units with 2 Cogeneration unit	
Cogen Powerhouse	Powerhouse including bark boilers, rec. Boiler, turbine	
Gassifier grey-water management	Gassifier grey-water management	
Sour Water stripping unit	Sour Water stripping unit	

Year	Customer	Site	Country	Area
2009	Coalstrip Power Generating Unit 4	Montana, USA	USA	Power Plant
2009	Fanapel		Uruguay	P&P
2008	Abu Dhabi Gas Industries Ltd (Gasco)	Habshan	UAE	Upstream
2008	Norsk Hydro Unit 2	Sture	Norway	Upstream
2008	Isab S.r.L.	Priolo	Italy	Refinery
2008	Coalstrip Power Generating Unit 3	Montana, USA	USA	Power Plant
2008	ONGC	Hazira	India	Petrochemical
2007	Coalstrip Power Generating Unit 2	Montana, USA	USA	Power Plant
2007	Dushanzi Petrochemical	Xin Jiang	China	Petrochemical
2006	Alcoa	Pt. Comfort, TX	USA	Minerals
2006	Isab Energy	Priolo	Italy	Refinery
2006	Coalstrip Power Generating Unit 1	Montana, USA	USA	Power Plant
2006	Winalco (+West Indies Alumina Company)	Ewarton	Jamaica	Minerals
2005	Norsk Hydro Unit 1	Sture	Norway	Upstream
2005	SAPPI	Ngodwana	South Africa	P&P
2005	HaiNan JinHai	HaiNan - China	Singapore	P&P
2004	Chinese Petroleum Co.	Tallin	Taiwan	Petrochemical
2004	DuPont	Dordrecht	Netherlands	Chemical
2004	Tesoro	Hawaii	USA	Refinery
2004	Tesoro	Hawaii	USA	Refinery
2004	Tesoro	Hawaii	USA	Refinery
2004	Polimeri Europa	Brindisi	Italy	Petrochemical
2004	Polimeri Europa	Ferrara	Italy	Petrochemical
2004	ERG	Priolo	Italy	Refinery
2003	TVK	Tiszaujvarous	Hungary	Petrochemical
2003	BASF	Ludwigshafen	Germany	Chemical
2003	BASF		Denmark	Chemical
2003	Polimeri Europa	Brindisi	Italy	Petrochemical
2003	Shell	Draugen	Norway	Oil&Gas
2003	Chinese Petroleum Co.	Tallin	Taiwan	Chemical
2003	Chinese Petroleum Co.	Tallin	Taiwan	Petrochemical
2003	Gulf Chemicals	Freeport, TX	USA	Chemical
2003	ENI Versalis	Porto Marghera	Italy	Petrochemical
2001	Linde		Germany	Chemical

Unit	Technical details	DCS
Coal Power Plant, multiple units (4)	Coal Power Plant, multiple units (4)	
Lime Kiln	Lime Kiln	
PEMS	PEMS 4 turbogas	
Terminal	Terminal	
Refinery Solvent Deaphalting Unit	Refinery Solvent Deaphalting Unit	
Coal Power Plant, multiple units (4)	Coal Power Plant, multiple units (4)	
LPG train (7 units)	LPG train (7 units)	
Coal Power Plant, multiple units (4)	Combustion optimization of large pulverized coal boiler	
Ethylene	Severity Control on Furnaces (7) using CB&I Lummus PYPs Kinetic Model	ABB MOD 300
Boiler management	Power plant optimization and APC: 8 boilers, 4 steam turbine, 6 steam headers, 3 3 set of pressure reducing	
IGCC Acid gas removal	IGCC Acid gas removal	
Coal Power Plant, multiple units (4)	Coal Power Plant, multiple units (4)	
Boiler management	4 boilers	
Terminal	Terminal	
Boiler control	Coordinated Boiler-Turbine control. Involving CE pulverized Coal boiler	
	0	
Crude Unit	Crude Unit	
Polimerization	Polimerization	
Crude Unit	Crude Unit	
Vacuum	Vacuum	
Naptha Splitter	Naptha Splitter	
Ethylene	Ethylene	ABB Harmony INFI90
EPDM	EPDM	
Refinery-Wide	Refinery-Wide	
Ethylene	MPC Recovery Section + Severity Control	ABB Advant MOD 300
Petlyuk Distillation Column	Petlyuk Distillation Column	
Butanol Column	Butanol Column	
Butadiene Plant	Butadiene Plant	
Upstream	Upstream	
Reformer	Reformer	
Reformer	Reformer	
Ammonia Stripper	Ammonia Stripper	ABB MOD 300
Ethylene	"MPC Controller. Model-Based Severity Control (using Lummus furnace model), Plant-wide real time optimization using NOVA equation-based solver. Ethylene Furnaces (15), Gasoline Fractionator, Quench Tower, Condensate Stripper, Demethaniser, Deethanizer, Acetylene Converter, C2 Splitter, Depropanizer, MAPD Converter, C3 Splitter, Debutanizer, Production Controller"	Honeywell TDC 3000
Air Separation	Air Separation	