

CEMS / SME / SAE

Oil & Gas and Chemical

All the referenced systems have been assembled by [FER Strumenti](#) in the Seregno (IT) production plant.

All the referenced systems are made using [FER Strumenti](#) design and production gas analyzers.

All the referenced systems have been supplied with the certifications requested by the end user (QAL1, QAL2, QAL3, UL, EAC, etc.)

| Customer | Location | Delivery | Description |
|--|-----------------|-----------------|---|
| ITT - International Thermal Technology | RUSSIA | October 2021 | 2 x NOx on refinery plant |
| AZTEK | TURKEY | September 2021 | CO-O2-Flow on Refinery plant |
| ZEECO | RUSSIA | August 2021 | CO-NOx-SO2-HC-O2 on refinery plant |
| RAM - Raffineria di Milazzo | ITALY | August 2021 | CO-NOx-SO2-O2-PTS-Q-P-T on refinery plant |
| ITT - International Thermal Technology | RUSSIA | March 2020 | NOx-O2 + NOx on steam reformer |
| OXAQUIM | SPAIN | October 2019 | CO-NOx-O2 + N. 1 CEMS per CO-NO on chemical plant |
| AZTEK ENERJI | TURKEY | November 2019 | CO-NOx-SO2-O2-T-Q-TOC on thermal recovery unit |
| AZTEK ENERJI | TURKEY | November 2019 | 3 x CO-NOX-SO2-O2-T-Q 2 x CO-NOX-SO2-O2-T-Q multiplexing x 3 on refinery plant |
| PKSK | TURKEY | October 2018 | 2 x CO-NOx-SO2 for Zone 2 (3G) |
| BECHSTEIN | INDIA | May 2018 | 2 x CO-NO-O2 |
| EMACO | TURKEY | January 2017 | 2 x NO-NO2-SO2-O2_T multiplexing on two stacks |
| EMACO | TURKEY | December 2017 | 15 x CO-NOX-SO2-T multiplexing on 4 stacks |
| ITT - International Thermal Technology | EGITTO | June 2017 | CO-NOx-SO2-CO2-O2-PTS-Q for flue gas from natural gas fired power plant. |
| ACCEDE IMPIANTI | VENEZUELA | November 2016 | CO-NOx-O2 ATEX on petrochemical plant |
| PERTEV | TURKEY | June 2016 | 4 x NH3-Flow |
| PERTEV | TURKEY | June 2016 | 2 x CO-NOx-CO2 for Zone 2 (3G) |
| PERTEV | TURKEY | February 2016 | CO-NO-SO2-O2-T-FLOW |
| ENDRESS HAUSER | Lomagna (LC) | September 2015 | CO-TOC |
| PERTEV | TURKEY | December 2015 | 3 x Co-NOx.-CO2-T-FLOW multiplexing on 3 stacks |
| FIVES ITAS | FRANCE | September 2014 | TOC-O2-CO multiplexing on 10 points |
| PERTEV | TURKEY | July 2014 | CO-NOx-CO2 multiplexing on 3 |
| ITALFLUID | SAUDI ARABIA | April 2014 | CO-NOx-SO2-O2-H2S |
| PKSK | TURKEY | August 2013 | 15 x FGMS for CO-NOx-SO2-H2S-O2 whit remote I/O devices |
| ETG RISORSE | TURKEY | May 2013 | 4 x CO-NO-SO2 systems |
| SHS INDUSTRIA / TECNIMONT/ HANIL | TURKEY | July 2012 | 4 x SO2 for waste incinerating plant on refinery |

| Customer | Location | Delivery | | Description |
|------------------------|---|-----------------|------|---|
| DI PIETRO | Eni Refining San Nazzaro dè Burgundi (PV) | February | 2012 | Double NOx and wet O2 on Oil and Gas Plant |
| ENEL /NOL-TEC | Livorno | April | 2010 | 2 x O2 for explosion control on coal silos |
| MOZZAFFARI | TURKEY | February | 2010 | CO extractive |
| SOCIETÀ IMPIANTI CALCE | RUSSIA | June | 2009 | CO2-O2 lime furnace Ghost approval |
| POLIOLI GRUPPO FAR | Filago (BF) | April | 2009 | Double redundant O2 multiplexing on 10 points for explosion protective matter |
| SOCIETÀ IMPIANTI CALCE | RUSSIA | April | 2009 | CO2-O2 lime furnace with Ghost approval |
| SOCIETÀ IMPIANTI CALCE | GRECIA | April | 2008 | CO2-O2 lime furnace |
| POLIOLI GRUPPO FAR | Vercelli | February | 2008 | Double redundant CO-NOx-TOC-O2 on liquid waste incinerator |
| ECIS GROUP | PAKISTAN | February | 2008 | NOx in AISI 316 Enclosure |
| SAIPEM / ENI | Taranto | December | 2007 | 2 x CO-O2- in ATEX Eex-p enclosure |

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Power and Industry

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| Customer | Location | Delivery | | Description |
|---------------------------|-------------------------|-----------------|------|--|
| SAMSO | Rozzani (MI) | April | 2022 | CO-NOx-O2-NH3-T on engine |
| CTM | Castellanza (VA) | March | 2022 | 4 x CO-NOx-O2-NH3-T on engine |
| AIRPROTECH | Czech Republic | March | 2022 | NOx for Zone 2 on Post-combustor |
| AS.TEC SISTEMI | Osimo (AN) | November | 2021 | CO-O2-T on wood furnace |
| EUROPOWER | Foggia | August | 2021 | CO-NOX-O2 on gas fired turbine |
| CENTRICA | Tribiano (MI) | September | 2021 | CO-NOx-NH3-O2-T on gas fired engine |
| VEZZANI FORNI | LITUANIA | May | 2021 | CO-O2-T on crematory |
| PIOMBIFERA | Molino Emili (BS) | May | 2021 | CO-NOx-SO2-TOC-O2 on lead plant |
| EUROPOWER | Ispra (VA) | May | 2021 | 2 x CO-NOx-NH3-O2-T Scan on 2 engine 4 CO-O2-T on 4 boilers |
| LUBE | Macerata | December | 2020 | CO-O2-T on Boiler |
| SITAPAN | Refrontolo (TV) | September | 2020 | 2 x CO-O2-T on wood fired furnace |
| CENTRICA | Origgio (MI) | June | 2020 | CO-NOx-O2-NH3-T on engine |
| CGT | Novara | June | 2020 | CO-NOx-O2-NH3-T on engine |
| ESSELUNGA | Milano | April | 2020 | 3 x CO-NOx-O2-T on gas fired boilers |
| ARCLINEA | Caldogno (VI) | March | 2020 | CO-O2-T on wood furnace |
| ARVEDI | Cremona | March | 2020 | CO-O2 on steel plant |
| RECORD CUCINE | Venezia | November | 2019 | CO-O2-T on wood furnace |
| AZTEK ENERJI 2 | Turkey | November | 2019 | CO-NOx-SO2-O2-T-Q-TOC on thermal recovery unit |
| VARESE RISORSE | Varese | June | 2019 | CO-NOx-O2-NH3-T on engine |
| ECOS LINK | MALESIA | June | 2019 | CO-NOx-SO2 on steel plant |
| IRCI | Bergamo | May | 2019 | CO-NOx-O2-NH3-T on engine |
| ILSAP | Latina | March | 2019 | CO-NOx-O2-T on waste fired boiler |
| SACCIR | Frosinone | December | 2018 | CO-NOx-O2-T on engine CO-NOx-O2-T on boiler |
| LEONI IMPIANTI | Pescara | December | 2018 | CO-NOX-O2-T multiplexing on 3 stacks |
| INTERGEN | Varese | December | 2018 | CO-NOx-NH3-O2-T on engine |
| LADURNER SRL | Milano | September | 2018 | CH4-CO2-O2-H2S in Biogas |
| GIZIA | Paderno del Grappa (TV) | July | 2018 | CO-O2-T on biomass furnace |
| INTERGEN SPA | Rovereto (TN) | April | 2018 | CO-NOx-O2-T on engine |
| DANIELI CENTRO COMBUSTION | Verona | October | 2017 | CO-NOX-SO2-T on steel plant |
| KAWASAKI Gas Turbine | Trento | October | 2017 | CO-NOx-O2-T-Q-H2O on gas turbine |

| Europe GmbH | | | | |
|--------------------------|-----------------------|-----------------|------|---|
| VIESSMAN | Sarentino (BZ) | April | 2017 | CO-O2-T on biomass boiler |
| INTERGEN SPA | Lainate (MI) | February | 2017 | CO-NOx-NH3-O2 on engine |
| INTERGEN SPA | Livorno | February | 2017 | CO-NOx-O2 on engine |
| Customer | Location | Delivery | | Description |
| TEC | Capo d'Orlando (ME) | December | 2016 | CO-NOx-SO2-TOC-O2-T on biomass furnace |
| IML IMPIANTI | Villasanta (MB) | November | 2016 | CO-NOx-NH3-O2 on engine |
| MEDIAPROFILI | Treviso | November | 2016 | CO-O2-T on biomass furnace |
| INNOTEK | SWITZERLAND | November | 2016 | NO on gold recovery plant |
| AUCHAN | Rescaldina (MI) | October | 2016 | CO2-CH4-O2 redundant for biogas |
| SALVADORI CORNICI | Spresiano (TV) | October | 2016 | CO-O2-T on biomass boiler |
| PASTA ZARA | Riese Pio X (TV) | September | 2016 | CO-O2-T multiplexing on 3 boilers |
| LIFE GREEN ENERGY | Roma | July | 2016 | CO-NOx-O2-T-Q on gas power generator |
| ENER-G | Milano | May | 2016 | CO-NOx-NH3-O2 on engine |
| ITALCANDITI | Pedrengo (BG) | April | 2016 | CO-NOx-NH3-O2-T on engines |
| VEZZANI | Reggio Emilia | March | 2016 | CO-O2-T-Q on crematorium |
| GRASTIM | Terni | February | 2016 | CO-NOx-O2-T |
| VIESSMAN ENGINEERING | AUSTRIA | Since | 2001 | CEMS CO-O2-T with data acquisition on wood furnaces |
| ITI ENGINEERING | Iglesias (CI) | August | 2015 | CO-NOx-SO2-TOC-Dust-NH3-Flow |
| VI ENERGIA | Asiago (VI) | June | 2015 | CO-NOx-O2-T |
| MANUTENCOOP | Rho (MI) | June | 2015 | 4 x CO-O2-T on boiler + CO-NOx-O2-T |
| TERMIGAS | Milano | June | 2015 | CO-O2-T on boiler |
| VENTILAZIONE INDUSTRIALE | Milano | April | 2015 | CO-TOC |
| ALESSANDRIA CALORE | Alessandria | February | 2015 | 3 x CO-O2-T on boiler + CO-NOx-O2-T |
| CPL | Milano | September | 2014 | CO-NOx-NH3-O2-T |
| ECOGENA | Pomezia (Roma) | June | 2014 | CO-O2-T on gas fired engine |
| FRAMA | Tirano (SO) | June | 2014 | CO on wood furnace |
| GRANAROLO | Usmate (MI) | June | 2014 | CO-NOx-O2 multiplexing x 2 |
| ENPLUS/EDISON | Roma | May | 2014 | CO-O2-T-Flow on gas fired engine |
| PAGNOTTA TERMOMECCANICA | EGYPT | April | 2014 | CO-O2 on ceramic furnace |
| ARGOS | Cavenago (MI) | April | 2014 | 2 x CO-NOx-CxHy-SO2-NH3-O2-T-Q |
| IML IMPIANTI | Postalesio (SO) | April | 2014 | CO-NOx-NH3-O2 |
| IML IMPIANTI | Biassono (MB) | March | 2014 | CO-NOx-NH3-O2 |
| ISOM | Bologna | March | 2014 | 8 x CO-NOx-O2-T on boilers and boilers and 2 x CO-NOx-NH3 O2-T on engines |
| BROFIND | ENGLAND | February | 2014 | CO on solvent treatment |
| TONALE ENERGIA | Passo del tonale (BS) | February | 2014 | CO-NOx-O2 multiplexing x 3 |
| ECOLOGIA INFORMATICA | CROAZIA | January | 2014 | O2 extractive |
| SOCIETÀ IMPIANTI CALCE | MALI | January | 2014 | CO2-O2 lime furnace |

| STEAM | Rho (MI) | January | 2014 | 1 x CO-NOx-NH3-O2 multiplexing x 2 1 x CO-NOx-O2 1 x CO-NOx-O2 multiplexing x 2 |
|---------------------------|-----------------------|-----------------|------|---|
| Customer | Location | Delivery | | Description |
| DEPARIA | Bergamo | November | 2013 | CO-O2-T multiplexing on two oil fired engine and NH3 to NO converter |
| SOLDERA | Cave del Predil (UD) | October | 2013 | CO-O2-T with datalogger |
| CHEMTEX | Crescentino (VC) | October | 2013 | CH4-CO2-O2 in Syngas |
| SOCIETÀ IMPIANTI CALCE | RUSSIA | September | 2013 | CO2-O2 lime furnace |
| BTS ITALIA | Lodi | June | 2013 | CO-O2-T on biogas fired engine with HW+SW data acquisition |
| PD ENERGIA | Verzuolo (CN) | February | 2013 | CO-NOx-SO2-O2-T on wood furnace and |
| EGEA | Alba (CN) | December | 2012 | CO-O2-T on gas fired engine |
| ACS DOBFAR | Anagni (FR) | November | 2012 | CO-NOx on gas fired boiler |
| TENOVA – LOI ITALIMPIANTI | COREA | October | 2012 | CO-NOx-SO2-O2 Analysis system on steel plant |
| AMIAT | Torino | July | 2012 | GFC monitoring |
| ACS DOBFAR | Anagni (FR) | June | 2012 | CO-NOx on gas fired turbine |
| STEAM | Rho (MI) | May | 2012 | CO-NOx-O2 multiplexing on 5 Boilers |
| SIGEC SERVICE | Mantova | April | 2012 | 2 x CO-NOx-Dust-O2 on biomass furnace |
| SACAL | Carisio (TO) | April | 2012 | 2 x O2 measure for aluminium melting plant |
| MICROTECNICA | Brugherio (MB) | April | 2012 | CO-O2-T on boiler |
| ENGITEC | USA | March | 2012 | 3 x CO-O2 on lead recovery plant |
| CPL CONCORDIA | Fiorano (MO) | February | 2012 | CO-NOx-O2-T + data acquisition |
| FUTURA COMPONENTI | Fontanelle (TV) | November | 2011 | CO-O2-T on biomass furnace |
| SPARK ENERGY | Lodi | November | 2011 | CO2-CH4-O2-H2S in Biogas |
| BIOENERGIA FIEMME | Cavalese (TN) | September | 2011 | CO-NOx-O2 multiplexing on 2 biomass furnace |
| TENOVA – LOI ITALIMPIANTI | INDIA | August | 2011 | NOx CEMS |
| UNILEVER | Caivano (NA) | April | 2011 | CO-NOx-O2-T-flow on turbogas and HW+SW data acquisition |
| GM MULTISERVICE | Settimo Milanese (MI) | April | 2011 | 3 x CO-NOx-O2-T CEMS with HW+SW acquisition data |
| SACAL | Carisio (TO) | March | 2011 | CEMS CO-O2-T-TOC-DUST on aluminium drying plants |
| ABB | ENI Power (Livorno) | February | 2011 | O2 HOT/WET phase extractive oxygen measuring |
| TENOVA – LOI ITALIMPIANTI | SAUDI ARABIA | January | 2011 | 2 x O2 extractive system |
| VTP | Farra di Soligo (TV) | October | 2010 | CO-O2-T on wood furnace and HW+SW data acquisition |
| ACSM-AGAM | Monza (MI) | October | 2010 | CO-NOx-O2-T on boiler |
| CAVANNA LEGNO | Predosa (CN) | September | 2010 | CO-NOx-O2-T on wood furnace and HW+SW data acquisition |
| MICHELETTO | Farra di Soligo | August | 2010 | CO-O2-T multiplexing on wood furnace with |

| | | | data acquisition |
|------------------------------|-----------------|-----------------|--|
| Customer | Location | Delivery | Description |
| CTM | Verbania | August 2010 | CO-NOx-O2-H2O-T + HW+SW data acquisition |
| CPL CONCORDIA | Rozzano (MI) | August 2010 | CO-NOx-NH3-O2 + data acquisition |
| PAGNOTTA TERMOMECCANICA | Egitto | July 2010 | CO-O2 Extractive multiplexing on 4 point |
| MONTELLO | Montello (BG) | June 2010 | CO-NOx-SO2-O2-TOC on biogas engine and HW+SW data acquisition |
| COMUNE DI LODI | Lodi | May 2010 | CO -O2-PTS on human incinerating and HW+SW data acquisition |
| CPL CONCORDIA | Moglia (MV) | April 2010 | CO-O2-T |
| CPL CONCORDIA | Ancona | April 2010 | CO-NO-O2-T |
| DANIELI CENTRO COMBUSTION | LIBIA | January 2010 | CO-NOx-SO2-CO2- O2-T on steel plant |
| ABB | Ferrara | December 2009 | 2 x O2 HOT/WET phase extractive oxygen measuring |
| CAPACCIOLI IMPIANTI | ROMANIA | November 2009 | CO-NO-SO2-PTS-T on brick furnace |
| ACSM-AGAM | Monza (MI) | November 2009 | CO-NOx (with NH3) -O2-T with 3 engine stacks multiplexing and HW+SW data acquisition |
| ACSM-AGAM | Monza (MI) | November 2009 | CO-NOx-O2-T redundant on boiler with HW+SW data acquisition |
| ACSM-AGAM | Monza (MI) | November 2009 | 2 x CO-O2-T on boiler with HW+SW data acquisition |
| EGEA | Alba (CN) | November 2009 | CO-O2-T on CH4 fired engine |
| ACSM-AGAM | Monza (MI) | November 2009 | NOx (with NH3) -O2-T with 3 engine stacks multiplexing and HW+SW data acquisition |
| POLIOLI GRUPPO FAR | Vercelli | November 2009 | HCL on liquid waste incinerator |
| S2 | Fermignano (PU) | October 2009 | CO-O2-T on wood furnace and HW+SW data acquisition |
| ITAS | Monza (MB) | July 2009 | CO-NOx-O2-T on burner test furnace multiplexing on two point |
| TENOVA – LOI ITALIMPIANTI | ALABAMA | June 2009 | 3 x NOx CEMS – UL Certified |
| EUOPOWER / VARESE SERVIZI | Varese | June 2009 | CO-NOx-O2-T multiplexing on 3 gas fired boilers |
| SCB | Bergamo | May 2009 | CO-O2-T-Flow on human incinerating and HW+SW data acquisition |
| MONTELLO | Montello (BG) | March 2009 | CO-NOx-SO2-O2-TOC-PTS multiplexing on 3 biogas engine and HW+SW data acquisition |
| POLIOLI GRUPPO FAR | Filago (BF) | February 2009 | Double TOC on post-combustor |
| POLIOLI GRUPPO FAR | Filago (BF) | February 2009 | TOC multiplexing on two resins dryer |
| EGEA | Alba (CN) | December 2008 | CO-O2-T on CH4 fired engine |
| TENOVA – LOI ITALIMPIANTI | INDIA | December 2008 | 2x NOx CEMS |
| CRS IMPIANTI / HUMANITAS | Milano | November 2008 | 2 x CO-O2-T gas fired boiler HW+SW data acquisition |

| Customer | Location | Delivery | | Description |
|---------------------------|----------------------------|-----------------|------|--|
| STS | Sedrina (BG) | October | 2008 | CO-NO-SO2-O2-Polveri on wood furnace and HW+SW data acquisition |
| EGEA | Alba (CN) | September | 2008 | CO-O2-T multiplexing on CH4 fired engine and HW+SW data acquisition |
| SMAT | Torino | July | 2008 | Double redundant CO-O2-H2O measuring for explosion monitoring on waste mud dryer and silos |
| DANIELI CENTRO COMBUSTION | SAUDI ARABIA | June | 2008 | CO-NOx-SO2-CO2- O2-T on steel plant |
| COMUNE DI MILANO | Cenacolo Vinciano (MILANO) | June | 2008 | PTS measuring system radio controlled and with remote via internet management |
| AMIAT | Torino | March | 2008 | Double redundant CO-NOx-O-T multiplexing on 4 biogas engine and HW+SW data acquisition |
| UNILEVER | Caivano (NA) | January | 2008 | CO-NOX-O2-T-flow on turbogas and HW+SW data acquisition |
| UNILEVER | Latina | December | 2007 | CO-NOX-O2-T-flow on turbogas and HW+SW data acquisition |
| PASTIFICIO FERRARA | Napoli | December | 2007 | Double CO-NO-O2-T on CH4 fired engine and HW+SW data acquisition |
| SEA | Pre San Didier (AO) | September | 2007 | CO-O2-T with 2 stacks multiplexing and HW+SW data acquisition and OPC server |
| AMIAT | Torino | July | 2007 | CH4-O2 on biogas |
| ANSALDO RICERCHE | Carbonia (CA) | May | 2007 | 2 x CEMS for O2 monitoring in syngas |
| FENICE | Barge (CN) | May | 2007 | CO-NOX-O2-multiplexing on 2 CH4 fired engine and HW+SW data acquisition |
| ESTEL | Thiene (VI) | February | 2007 | CO on wood furnace |