List of references
SFA Handels GmbH

Engineering

Year	Customer	Place	Scope of supply
Chemical industry			
1985	Chemical Factory	Uetikon (Switzerland)	Engineering for steam boiler plant, including infrastructure.
1985	Claviag AG	Moosleerau (Switzerland)	Engineering for reconstruction of the heating of spray dryer Optima and Magna in accordance with LRV 92.
1985	Sandoz AG	Muttenz (Switzerland)	Engineering for the sanitation of the organically polluted exhaust air at Muttenz.
1985	Sandoz AG	Muttenz (Switzerland)	Feasibility study and offer boiler house, heat distribution, process measuring and control technology units and equipment.
1986	Sarna AG	Sarnen (Switzerland)	Feasibility study with concept and detail engineering on pentane disposal and energy recovery.
1986	Schaerer + Schlaepfer AG	Rothrist (Switzerland)	Feasibility study, risk analysis and detail engineering for the collection and disposal of the ethyl oxide-exhaust air.
1986	Rohner AG	Pratteln (Switzerland)	Energy study, energy center and fabrication with economy, package of measures, investments.
1987	Bertrams Chemianlagen AG	Muttenz (Switzerland)	Basic- and detail engineering for 1 special steam boiler for the saltpetre production. Place of installation Argentina.
1987	Ciba Geigy AG	Basel (Switzerland)	Processing and detail design of a special combustion plant for the project AOPRC (China).

Engineering

Year	Customer	Place	Scope of supply
Chemical industry			
1995	STIA AG	Pratteln (Switzerland)	Engineering for a complete exhaust air cleaning- plant, and registration in the production. Engineering for the sanitation of the fuel depot section II. Automation concept chemistry production building 30.
1999	Gremolith AG	Bazenheid (Switzerland)	Feasibility study and detail engineering on the collection and disposal of room- and production exhaust air.
1999	Federal Office for the Environment FOEN	Bern (Switzerland)	Feasibility study, engineering and delivery of a separation plant for separating quicksilver after the crematorium, including complete plant installation.
2000	LONZA AG	Visp (Switzerland)	LRV conformal reconstruction of the 70 t/h boilers with replacement of the burner and exhaust air disposal, including new installation of the complete process measuring and control technology automation system and adaptations to the attendant facilities.
2000	LONZA AG	Visp (Switzerland)	Inspection of the existing exhaust air disposal in the factory, in building F17, in Visp.
2005	Hoffmann La Roche AG	Basel (Switzerland)	Feasibility study on waste solvent management and utilization in Basel.
2009	Hoffmann La Roche AG	Basel (Switzerland)	Performance and evaluation of the measured results from the combustion tests at in a special- high- temperature- combustion chamber with liquid and gaseous chemical residues. Flue gas analysis on polychloried dioxins and furanes (PCDD, PCDF).

Engineering

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
1982	Zürcher Furnierwerk	Regensdorf (Switzerland)	Economical investigation inspection for power supply.
1983	Hasena AG	Laeufelfingen (Switzerland)	Engineering for hot water generation with distribution system.
1987	PRT-Tomar Cork production	Tomar (Portugal)	Basic- and detail engineering for firing equipment for solids and 1 steam boiler with a capacity of 25 t/h, 45 bar pressure, including complete plant installation.
2014	Vattenfall Europe	Rostock (Germany)	Feasibility study with cost account for a sludge incineration plant in Germany. Adjustment to an existing plant, steam boiler 100 t/h, new fuel specification with 8 – 12 MJ/kg.
2016	Danpower GmbH	Potsdam (Germany)	Feasibility study with cost account for a sludge incineration plant in Germany. Amount of fuel 160’000 t/year.

Engineering

Year	Customer	Place	Scope of supply
Disposal industry			
1994	City Freiburg	Freiburg (Switzerland)	Feasibility study on an animal body incineration plant in Montmollin, canton Neuenburg.
1995	Muera	Biel (Switzerland)	Investigation of the condition, wall-thickness measurement of the waste incineration boiler.
1999	Bayer Chemie Werk	Mannheim (Germany)	Basic- and detail engineering for 1 waste heat boiler in a special combustion plant. Waste heat boiler capacity of 12 t/h, 22 bar pressure.
2002	GZM/GBL	Lyss (Switzerland)	Feasibility-study on CHP generation. Animal body incineration plant, generation of current over a gas turbine.
2004	Building authority City of Basel	Basel (Switzerland)	Feasibility-study on the disposal of human / organically hospital residues as well as condition analysis of the existing crematory plants.
2005	AWZ	Zurich (Switzerland)	Feasibility-study on the disposal of the waste air of the tankage company in occurrence of revision or damage.
Synthetics			
1999	Ceta SA	Vouvry (Switzerland)	Feasibility study and detail engineering for the registration and disposal of production exhaust air.

Engineering

Year	Customer	Place	Scope of supply
Metal industry			
1985	Sugar factory	Frauenfeld (Switzerland)	Energy study on the waste heat potential fabrication shavings, drying process/boiler house with optimization suggestions.
1987	Apaco AG	Grellingen (Switzerland)	Feasibility study exhaust air disposal of metal pickling plant.
1992	Edak AG	Dachsen (Switzerland)	Feasibility study exhaust air disposal of metal pickling plant.
2001	Produits Morgia SA	Morges (Switzerland)	Engineering for the building of a power center, one long-distance line channel and under stations.
Paper industry			
1993	Versoix	Versoix Genevea (Switzerland)	Energy study, power center including distribution system under consideration of economy and investments.
Textile industry			
1997	Bethge AG	Zofingen (Switzerland)	Energy study, power center with distribution system.
1999	VFA AG	Thalwil (Switzerland)	Energy study, power center, including distribution system under consideration of economy and investments.

Engineering

Year	Customer	Place	Scope of supply
Shipbuilding			
1986	Howaldts-Deutsche Werft AG	Kiel (Germany)	Engineering for the building of a marine boiler for a platform ship in Nigeria.
1986	Howaldts-Deutsche Werft AG	Kiel (Germany)	Engineering for the building of marine steam boilers 30 - 80 t/h for the general marine engineering in Korea and China.

General contractor

Year	Customer	Place	Scope of supply
General			
1983	Waste incineration plant	Buchs (Switzerland)	Delivery of 1 oil-fired auxiliary steam boiler with a capacity of 30 t/h, 35 bar pressure, including complete plant installation.
1987	Oleificio Sabo AG Cooking oil production	Manno (Switzerland)	Delivery of 1 oil-fired auxiliary steam boiler with a capacity of 20 t/h, 18 bar pressure, including complete plant installation.
1988	GZM Extraktionswerk	Lyss (Switzerland)	Installation of a power center including infrastructure, 1 x steam boiler 16 t/h; 1x steam / steam transformer 5 t/h.
1988	SAIOD Cottendart	Colombier (Switzerland)	Consortium of the companies SFA, Von Roll and K+K SFA scope waste incineration boiler including infrastructure.
1995	STEP Lausanne	Lausanne (Switzerland)	Installation of 2 furnace lines for sewage sludge utilization with waste heat use incl. integration connection to the consisting infrastructure.
1998	Institute IVI	Mittelhäusern (Switzerland)	Animal body sterilization plant.
2004	AWZ	Zurich (Switzerland)	Complete plant installation for the exhaust air disposal for the animal flour production.
2008	Colenco	Baden (Switzerland)	Complete plant installation of the hazardous waste incineration plant SVA-Hard Winterthur (fluidized bed combustion, sewage sludge).
2008	Colenco	Baden (Switzerland)	Complete plant installation for the plant of Reni in Niedergösgen (fluidized bed combustion, wood and rejects).
2008	Crematorium Hörnli	Basel (Switzerland)	Retrofit of an existing furnace plant for mercury separation.

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
1982	Hasena AG	Läufelingen (Switzerland)	Hot water boiler 5 MW, operating pressure 20 bar. Construction pressure 30 bar, HW 190 °C flow, 160 °C return Combustible: hogged wood class AI Combustion performance is 6,3 MW Fuel silo, Hot water boiler, plant infrastructure, process measuring and control technology.
1983	Swiss Federal Railways	Olten (Switzerland)	Steam boiler 2 x 8 t/h, operating pressure 20 bar. Construction pressure 30 bar, 250 °C superheated steam Combustible: hogged wood class AI – AII Combustion performance is 2 x 7 MW Fuel silo, fuel supply, steam boiler Plant infrastructure, process measuring and control technology.
1985	STEP Lausanne	Lausanne (Switzerland)	Steam boiler 2x8 t/h, to the sewage sludge burn with supporting fire and heavily fuel oil. Operating pressure 30 bar, 360 °C superheated steam Combustible: 2 x 6'531 kg sewage sludge Additional fuel: 2 x 217 kg/h heavy fuel oil Fuel filling, steam boiler, plant infrastructure, process measuring and control technology.
1988	Angéloz Mode SA Clothing	Romont (Switzerland)	Delivery of firing equipment for solids and 1 steam boiler with a capacity of 15 t/h, 12 bar pressure, including complete plant installation.

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
1989	SAIOD Cottendart	Colombier (Switzerland)	Steam boiler 14 t/h normal, maximum is 16,5 t/h Operating pressure 40 bar, construction pressure 55 bar, 435 °C hot steam Combustible: municipal and industrial waste Combustible deliver rate: approximately 4 t/h Combustion performance is 18 MW Steam boiler, steel building, process measuring and control technology, connection to the existing plant infrastructure.
1995	Heraeus Deutschland GmbH & Co. KG	Pforzheim (Germany)	Complete production waste ashing plant (GPA) Ashing gear: Production waste materials with precious metal like gold, Platinum. Throughput: 300 t/year Ash charging, burning, waste heat use, flue gas purification, process measuring and control technology, connection to the existing plant infrastructure.
2001	Degussa AG	Hanau/Frankfurt (Germany)	Complete production waste ashing plant (GPA) Ashing gear: waste materials with precious metal like gold, platinum etcetera Throughput: 300 t/year production waste materials 500 t/year LM solvent 300 t/year oil of arrears from sump Ash charging, fuel depot, burning, special combustion chamber, waste heat use 16 t/h saturated steam16 bar, flue gas purification, process measuring and control technology, connection to the existing plant infrastructure.

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
2002	Harpen EKT	Berlin-Neukölln (Germany)	2 x steam boiler 60 t/h normal, maximum is 66 t/h. Operating pressure is 66 bar, construction pressure 80 bar, 450 °C hot steam Combustible: Waste wood category A1 – AIV Combustion performance is 2 x 53 MW thermal Boiler efficiency: 91 % Steam boiler, steel building, process measuring and control technology, connection to the existing plant.
2003	SEC (HHKW)	Dresden (Germany)	Steam boiler 30 t/h normal, maximum is 33 t/h. Operating pressure 66 bar, construction pressure 80 bar, 435 °C hot steam Combustible: Waste wood category AIV, municipal and industrial waste Fuel throughput: 7 t/h Combustion performances is 23 MW Steam boiler, steel building, process measuring and control technology, connection to the existing plant infrastructure.
2003	Mainova AG	Frankfurt am Main (Germany)	1 steam boiler 50 t/h normal, maximum is 55 t/h Operating pressure is 66 bar, construction pressure is 80 bar, 450 °C hot steam Combustible: Waste wood category A1 – AIV Combustion performance is 43,6 MW Boiler efficiency: 91 % Steam boiler, steel building, process measuring and control technology, connection to the existing plant.

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
2005	VYNCKE	Several places in Thailand	Steam boiler 55 t/h. Operating pressure is 45 bar, construction pressure is 66 bar, 420 °C hot steam. Combustible: Palm stalks Combustion performance is 50 MW Production drawings for the Boiler, Strength calculation according to ASME, Thermal verification, ASME test procedure specification, Steel construction structural analysis.
2006	Vattenfall Europe	Rostock (Germany)	Steam boiler 100 t/h normal, maximum is 105 t/h Operating pressure is 42 bar, construction pressure is 65 bar, 405 °C hot steam Combustible: Industrial and municipal waste, refuse derived fuels (RDF). Combustion performance is 87 MW Boiler efficiency: 91 % Combustion grate, 1 lane with 9m width, water-cooled main combustion zone, air-cooled burnout zone, Fuel feeding system, Steel structure for the combustion grate, complete cooling system, Air supply, process measuring and control technology.
2007	Tm.E. Spa Termomeccanica Ecologia	Calce (France)	Delivery of a bottom ash discharger Discharge capacity 11-15 t/h of ash and slag. Weight (empty): 12,8 t Volume: 8 m³ Transported material: Ash and slag from waste incineration
2008	Holzheizkraftwerk Silbitz GmbH	Silbitz (Germany)	Replacement of 2 x Input of fuel. Combustion performance is 27 MW Fuel throughput is 55’000 t/year

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
2010	Unitherm Baruth GmbH	Baruth (Germany)	Replacement of the Input of fuel Combustion performance is 45 MW Fuel throughput is 90’000 t/year
2010	BOFA	Rønne (Denmark)	Fuel feeding system Combustion performance is 7 MW Fuel throughput is 21’000 t/year
2011	Clariant Schweiz AG	Muttenz (Switzerland)	Replacement of the ash removal system Combustion performance is 10 MW Fuel throughput is 30’000 t/year
2011	REFA	Nykøbing (Denmark)	Fuel feeding system Combustion performance is 14 MW Fuel throughput is 44’500 t/year
2012	Danpower GmbH	Elsterwerda (Germany)	Replacement of the fuel feeding system Combustion performance is 45 MW Fuel throughput is 100’000 t/ year

General contractor

Year	Customer	Place	Scope of supply
Municipal waste / Biomass / RDF			
2015	Vattenfall Europe	Rostock (Germany)	Renovation of a 9 meter wide water-cooled combustion grate for a steam boiler 100 t/h normal, maximum is 105 t/h. Rebuilding the Input of fuel, the motions compensators, 990 pieces of water-cooled grate plates, the air supply system.
2016	Bangkok Industrial Boilers Co.Ltd.	Bangkok (Thailand)	Combustion grate with a width of 4,2 m for a 50 t/h steam boiler, 10 MW electrical Power production. Waste throughput 25 t/h. Water-cooled main combustion zone, air-cooled burnout zone. Fuel feeding system, complete cooling system, air supply, process measuring and control technology.

General contractor

Year	Customer	Place	Scope of supply
Food industry			
1979	Landtwing Rütter AG Distillery	Hünenberg (Switzerland)	Delivery of a complete waste disposal plant for the distillery. Steam boiler with drum dryer and exhaust gas purification system. Steam boilers with a capacity of 12 t/h each, 16 bar pressure.
1980	Etter Söhne AG Distillery	Zug (Switzerland)	Delivery of a complete waste disposal plant for the distillery. Steam boiler with drum dryer and exhaust gas purification system. Steam boilers with a capacity of 12 t/h each, 16 bar pressure.
1982	Toni AG Dairy Farm	Zürich (Switzerland)	Detail engineering for the power station. Delivery of 2 oil-fired steam boilers with a capacity of 25 t/h each, 16 bar pressure, including complete plant installation.
1983	Nestlé Alabang Coffee roasters	City of Muntinlupa (Philippines)	Delivery of 1 special steam boiler with a capacity of 25 t/h, 16 bar pressure. Fired with a special combustion method for coal and biomass together, exhaust gases from coffee roasters have 500 °C. Support burner fuel heavy fuel oil.
1984	Coop Bern	Bern (Switzerland)	Delivery of 1 special steam boiler with a capacity of 20 t/h, 16 bar pressure. Fired with special combustion grate for waste from the food industry. Throughput 6 t/h. Support burner fuel light fuel oil.
1985	Louis Ditzler AG Frozen food products	Möhlin (Switzerland)	Delivery of 2 oil--fired steam boilers with a capacity of 18 t/h each, 22 bar pressure, including complete plant installation.
1985	Findus Food Production	Békéscsaba (Hungary)	Delivery of a power station with a steam production of 25 t/h, 22 bar pressure.
1987	Coop Basel Central Backery	Basel (Switzerland)	Delivery of 1 oil-fired steam boiler with a capacity of 20 t/h, 18 bar pressure.

General contractor

Year	Customer	Place	Scope of supply
Food industry			
1987	Thomy Nestlé AG Food production	Basel (Switzerland)	Delivery of 2 oil--fired steam boilers with a capacity of 16 t/h each, 16 bar pressure, including complete plant installation.
1990	Brauerei Schützengarten AG Brewery	St. Gallen (Switzerland)	Delivery of 1 oil--fired steam boilers with a capacity of 20 t/h each, 25 bar pressure, including complete plant installation.
1990	Migros Volketswil Central Backery	Volketswil (Switzerland)	Delivery of 2 gas-fired steam boilers with a capacity of 16 t/h each, 18 bar pressure.
1990	Migros Micarna Central butchery	Courtepin (Switzerland)	Delivery of 2 oil-/gas-fired steam boilers with a capacity of 15 t/h each, 16 bar pressure.
1992	Migros Münchenstein Central warehouse	. Münchenstein (Switzerland)	Delivery of 1 heavy fuel oil-fired steam boiler with a capacity of 20 t/h, 20 bar pressure.

General contractor

Year	Customer	Place	Scope of supply
Chemical industry			
1974	STIA AG	Pratteln (Switzerland)	Delivery of 1 oil fired steam boilers with an output of 20 t/h, 16 bar pressure, including infrastructure.
1975	Rohner AG	Pratteln (Switzerland)	Delivery of 2 oil fired steam boilers with an output of 18 t/h, 16 bar pressure, including infrastructure.
1985	Schaerer + Schlaepfer AG	Rothrist (Switzerland)	Complete installation and burner equipment for the disposal of the ethyl oxide-exhaust air.
1985	SF-Chem AG	Pratteln (Switzerland)	Delivery of 1 heavy fuel oil-fired steam boiler with a capacity of 30 t/h, 30 bar pressure, including complete plant installation.
1986	Chemical factory	Uetikon (Switzerland)	Installation of a complete power center with adaptation to the existing system. NOx-poor burner with multiple-stage combustion for heavily fuel oil, in accordance with LRV.
1995	STIA AG	Pratteln Switzerland)	Thermal exhaust air cleaning plant TAR for the complete disposal of the loaded exhaust air as well as the liquid residues. Exhaust air collection starting from emission sources
1998	SANDOZ	Basel (Switzerland)	LRV conformal reconstruction of the boiler plant with replacement of the burner plants incl. new installation of the total automation system.
2004	Rohner AG	Pratteln (Switzerland)	Reconstruction and sanitation of the power center.
2008	Chemical factories Perl	Saar-Lothringen (Germany)	Installation a complete power center, 2 x 10 t/h steam boilers, including infrastructure.

General contractor

Year	Customer	Place	Scope of supply
Chemical industry			
2008	Heraeus Deutschland GmbH & Co. KG	Pforzheim (Germany)	Complete sweepings-incineration plant with waste heat utilization, flue gas cleaning sewage and process measuring and control technology plant.
2009	Degussa	Hanau / Frankfurt (Germany)	Complete sweepings-incineration plant with solvent / rhodium oil combustion as well as waste heat use, flue gas cleaning and process measuring and control technology plant.
2009	Ciba-Geigy Factory Klybeck	Basel (Switzerland)	Thermal exhaust air cleaning plant TAR K-643 for exhaust air disposal Farm production K-640.
2012	Hoffmann La Roche AG	Basel (Switzerland)	LRV conformal reconstruction of the boiler plant Nr.8 with replacement of the burner plants natural gas/fuel oil/solvent including new installation of the total automation system and adaptations of the attendant facilities.
2016	Clariant Schweiz AG	Muttenz (Switzerland)	Renovation of an existing sub construction combustion grate with a new grate plates.

General contractor

Year	Customer	Place	Scope of supply
Military Enterprises			
1991	German Aerospace	Schrobenhausen (Germany)	Detail engineering submission data and execution of the licensing procedures for the disposal plant Steinbach.
1991	German Aerospace	Schrobenhausen (Germany)	Investigational procedure and evaluation of the measured results in the revolving tube with: - Explosive Oktogen - Explosive A-IX-2 - Solid propellant o.l. ammonium perchlorate - Propellant powder NT-3 - Explosive TNT - Explosive TO - Mixture TO/A-/X-2/NT-3
1993	General Atomic	Lueppen (Germany)	Partial delivery, mounting, start-up, performance and procedure test including process optimisation of methods of the installed: - Fluidized-bed combustions - Rotary drum plant - Flue gas cleaning plant - Waste water treatment plant - Automation system in the plant
1995	UIT	Dresden (Germany)	Planning and installation of a mobile mercury return QRG to Valuable material retrieval from primer caps.
2001	Swiss federal one Military enterprises	Thun (Swiftzerland)	Planning and production of a complete technique line for disposal of military special- and of residual substances, consisting of: - Material preparation - Combustion - Waste heat utilization - Flue gas cleaning - Waste water treatment

General contractor

Year	Customer	Place	Scope of supply
Military Enterprises			
2010	Federal Military Department	Thun (Switzerland)	Fuel feeding for solid particle firing incl. complete flue gas cleaning plant (wet process) and dust-exhaust stage as well as waste water treatment plants.
Shipbuilding			
1986	Vaporama	Lake Thun (Switzerland)	New installation of the complete boiler plant steam ship “Blümlisalp”, equipped with integrated superheater and fuel oil EL firing, including process measuring and control technology-plant and installation. Paddle steamers from the year 1906. 1 x 8 t/h steam boiler, 12 bar pressure.
Wood industry			
1980	Spanplattenwerk Fiederis AG	Fiederis (Switzerland)	Delivery of 1 dust/oil-fired steam boiler with a capacity of 20 t/h, 18 bar pressure. Dust from the wooden plate production. 800 – 1’500 kg/h dust from the wooden plate production.