

REFERENCE LIST: SEWAGE AND SLUDGE TREATMENT SYSTEMS
(SOA Cat. OS22)

- * **MUNICIPALITY OF BOLZANO** € 329,177.75

Expansion of the Municipality of Bolzano's wastewater treatment system. Sewage sludge drainage facility for the activated sludge plant with anaerobic sludge treatment.

Capacity: 110,000 EGW
Location of Execution: Bolzano
Year of Execution: 1991
Project: ATZWANGER AG

- * **LOWER VAL ISARCO SEWAGE SYNDICATE** € 1,698,354.96

Construction of the anaerobic sludge treatment plant with biogas energy recovery and sludge drainage systems. Construction of the exhaust air treatment system. The project comprised a wastewater treatment system with a percolating filter, anaerobic sludge treatment and a combined heat and power unit using biogas motors.

Capacity: 40,000 EGW
Location of Execution: Chiusa (BZ)
Year of Execution: 1993 – 1994
Project: Dr. PFEIFER, Engineer, Bolzano
PASSER Engineering Studio, Innsbruck

- * **CONSTRUCTION COUNCIL, MUNICIPALITY OF BOLZANO** € 2,130,415.42

Expansion of the Municipality of Bolzano's wastewater treatment system, including supply and assembly of mechanical equipment. Construction of the exhaust air treatment system, flotation system for cloudy water treatment. The project comprised a wastewater treatment system with upstream de-nitrification and phosphate precipitation, anaerobic sludge treatment and a combined heat and power unit using biogas motors.

Capacity: 220,000 EGW

Location of Execution: Bolzano
Year of Execution: 1993 – 1994
Project: Dr. VALDEMARIN, Engineer, Bressanone
Dr. GRANDI, Engineer, Bologna

* **CONSTRUCTION COUNCIL, MUNICIPALITY OF BOLZANO**

€ 2,586,585.05

Supply and Installation of a portion of the mechanical equipment for the mid-Val Pusteria wastewater treatment plant. Work comprised an activated sludge treatment system with upstream de-nitrification and simultaneous phosphate precipitation, anaerobic sludge processing and a combined heat and power unit using biogas motors. Because of its location in a highly touristed area, as well as very low winter temperatures, the plant was built within an underground cave.

Capacity: 130,000 EGW
Location of Execution: San Lorenzo di Sebato (BZ)
Year of Execution: 1994 – 1995
Project: Dr. CASTLUNGER, Engineer, Brunico
Dr. KUSTER & HAGER, Engineer, Uznach

* **VAL BADIA SEWAGE CONSORTIUM**

€ 196,181.32

Wastewater pump station for the Municipality of Pedraces.

Location of Execution: Pedraces (BZ)
Year of Execution: 1994 – 1995
Project: Dr. CLARA, Engineer, Brunico

* **MUNICIPALITY OF RENON**

€ 169,529.63

Expansion of the wastewater treatment plant of Soprabolzano in the Municipality of Renon. Delivery and installation of a grit chamber/grease trap and sludge activation systems, as well as other mechanical equipment.

Location of Execution: Soprabolzano (BZ)
Year of Execution: 1994 – 1995

- Project: Projectbüro H & T, Bolzano
- * **ZIPPERLE A.G.** € 229,725.11
- Pilot system for the chemical-physical preliminary purification of wastewater from the fruit processing industry.
- Location of Execution: Merano (BZ)
- Year of Execution: 1994
- Consultant: Acquaconsult Engineering Studio,
Hannover
- * **ZIPPERLE AG** € 2,613,012.39
- System for the chemical-physical preliminary purification of wastewater from the fruit processing industry.
- Capacity: 150,000 EGW
- Location of Execution: Merano (BZ)
- Year of Execution: 1995 – 1996
- Consultant: Acquaconsult, Hannover
- Project: ATZWANGER AG
PASSAVANT WERKE AG, Aarbergen
- * **WIPPTAL SEWAGE SYNDICATE** € 1,751,632.22
- Construction of the anaerobic sewage treatment plant, its biogas lines with energy recovery through biogas motors, grit chamber/grease trap system, simultaneous phosphate precipitation with metering system, denitrification and activated sludge tank equipment, anaerobic sludge treatment and combined heat and power unit using biogas motors.
- Capacity: 30,000 EGW
- Location of Execution: Vipiteno (BZ)
- Year of Execution: 1996 – 2001
- Project: Dr. PARDELLER, Engineer, Vipiteno
Dr. KUSTER & HAGER, Engineer, Uznach

* **CONSTRUCTION COUNCIL, MUNICIPALITY OF BOLZANO**

€ 862,613.35

Construction of the wastewater treatment plant for the consortium of the Municipalities of San Candido and Sesto in the Val Pusteria (BZ), including various portions of the mechanical equipment, water and sludge lines.

The system comprised an activated sludge purification plant with upstream de-nitrification and simultaneous phosphate precipitation, anaerobic sludge treatment and a combined heat and power unit using biogas motors. The system was completely covered to minimise the influence of very low winter temperatures (as extreme as -30°C) and achieve better integration within a highly touristed area. The exhaust air is treated and cleaned.

Capacity: 28,000 EGW
Location of Execution: San Candido (BZ)
Year of Execution: 1996 – 1998
Project: Dr. AICHNER, Engineer, Brunico
Dr. CASTLUNGER, Engineer, Brunico
Dr. KIRCHEBNER, Engineer, Innsbruck

* **MUNICIPALITY OF FORTEZZA**

€ 29,654.95

Construction of a sewage water hydraulic system at the main sewer of Fortezza-Aicha.

Location of Execution: Fortezza (BZ)
Year of Execution: 1996
Project: Dr. VALDEMARIN, Engineer, Bressanone

* **MUNICIPALITY OF MERANO**

€ 3,582,728.22

Construction of the sanitation, heating and ventilation systems with exhaust air treatment using biofilters at Merano's wastewater treatment plant.

Location of Execution: Merano (BZ)
Year of Execution: 1997 – 2000
Project: PASSER Engineering Studio, Innsbruck
Dr. GRETZER, Engineer, Bolzano

* **MUNICIPALITY OF SAN GENESIO** € 130,415.42

Complete construction of a compact wastewater treatment plant at the town of Valas.

Location of Execution: San Genesio (BZ)
Year of Execution 1997
Project: Dr. VIEIDER, Engineer, Bolzano

* **MUNICIPALITY OF FUNES** € 38,695.22

Replacement of the fine rack system with a spiral-sieve with integrated screening press, and delivery of an activated sludge tank ventilation system.

Location of Execution: S. Pietro in Funes (BZ)
Year of Execution: 1997
Project: Dr. DAPRÀ, Engineer, Bolzano

* **IPRONA AG** € 52,413.87

Construction of a wastewater pre-treatment system, including conduiting and hydraulic system.

Location of Execution: Lana (BZ)
Year of Execution: 1997
Project: ATZWANGER AG

* **MUNICIPALITY OF NATURNO** € 213,415.42

Expansion of the wastewater treatment plant. Mechanical sludge densification, hydraulic system using high-grade steel spiral conduits, mixer in de-nitrification tanks, plus related work.

Location of Execution: Naturno (BZ)
Year of Execution: 1998-99
Project: Dr. ZIPPERLE, Engineer, Merano

* **MUNICIPALITY OF TIRES** € 133,657.95

Construction of a solar sewage sludge drying system for the Municipality of Tires's wastewater treatment plant. Forcing house, systems and remote monitoring.

Location of Execution: Tires (BZ)
Year of Execution: 1999
Project: Projectbüro H & T, Bolzano

* **GIES CONSORTIUM FOR WASTEWATER TREATMENT, BRONZOLO** € 1,412,895.99

Expansion of the wastewater treatment plant. Expansion of sewage densification and drainage using band-pass filters and wire presses. Expansion of the compressor station of the activated sludge tank, and related work.

Location of Execution: Bronzolo (BZ)
Year of Execution: 1999 – 2001
Project: Dr. VALDEMARIN, Engineer, Bressanone
Dr. GRANDI, Engineer, Bologna

* **MUNICIPALITY OF CASTELROTTO** € 134,280.90

Expansion of the wastewater treatment plants at Siusi and Castelrotto. Renovation of the rack system through installation of a spiral sieve with integrated screening press. Exhaust air filtering using a biofilter.

Location of Execution: Castelrotto (BZ)
Year of Execution: 1999 - 2000
Project: Dr. ZIPPERLE, Engineer, Merano

* **ECOCENTER AG** € 1,719,801.47

Expansion of the sludge drainage system with high-pressure wire presses and sludge silos for drainage.

Location of Execution: Bolzano (BZ)

Year of Execution: 2000 – 2002
Project: Arch-Ing-Service Srl, Terlano
AI Engineering Srl, Turin
TBF Toscano-Bernardi-Frey AG, Zurich

* **GIES CONSORTIUM FOR WASTEWATER TREATMENT, BRNZOLO** € 662,278.90

Expansion of wastewater treatment plant. Pre-treatment and compensation tanks for the VOG Company's wastewater, including accessories.

Location of Execution: Bronzolo (BZ)
Year of Execution: 2000 – 2001
Project: Dr. VALDEMARIN, Engineer,
Bressanone
Dr. GRANDI, Engineer, Bologna

* **GIES CONSORTIUM FOR WASTEWATER TREATMENT, BRNZOLO** € 156,100.13

Adjustment of the wastewater treatment plant to new fire protection standards.

Location of Execution: Bronzolo (BZ)
Year of Execution: 2001
Project: P.I. Doriano Caselli, Ferrara

* **MUNICIPALITY OF APPIANO** € 134,586.75

Expansion of the Monticolo wastewater treatment plant. Rack system with snail-sieve with integrated screening press, activated sludge tank equipment with compression station, runoff recovery system for agriculture.

Location of Execution: Monticolo (BZ)
Year of Execution: 2001
Project: Rauch und Gabalin, Engineers, Ora

* **MUNICIPALITY OF SARENTINO** € 99,235.35

Expansion of wastewater treatment system. Rack system with spiral-sieve with integrated screening press, rainwater tanks and various additional works.

Location of Execution: Sarentino (BZ)

Year of Execution: 2001

Project: Dr. Siegfried Seehauser, Engineer,
Bolzano

* **GIES CONSORTIUM FOR WASTEWATER TREATMENT, BRONZOLO** € 126,901.72

Expansion of wastewater treatment plant. Measures to optimise nitrification. Hydraulic systems and recirculation.

Location of Execution: Bronzolo (BZ)

Year of Execution: 2001

Project: Dr. GRANDI, Engineer, Bologna

* **ECOCENTER AG** € 62,161.00

Construction of a provisional sludge drainage system for the Municipality of Merano's wastewater treatment plant. Installation of three leased drainage centrifuges in the sludge containers.

Location of Execution: Sinigo (BZ)

Year of Execution: 2001

Project: ECOCENTER AG, Bolzano

* **LOWER VAL ISARCO SEWAGE SYNDICATE** € 3,983,059.00

Expansion of the Municipality of Bressanone's wastewater treatment plant. Construction of a third purification line and upgrading of the two existing lines with phosphate precipitation, simultaneous de-nitrification and nitrification systems. Expansion of the sludge handling and sedimentation racks.

Location of Execution: Bressanone (BZ)

Year of Execution:	2002 - 2004	
Project:	Dr. GRANDI Engineer, Bologna Dr. VALDEMARIN, Engineer, Bressanone	
* LOWER VAL ISARCO SEWAGE SYNDICATE		€ 186,026.17
Expansion of the Municipality of Chiusa's "Zargenbach" wastewater treatment plant. Cloudy water tank equipment from the sludge drainage and various upgrades to portions of the plant.		
Location of Execution:	Barbiano (BZ)	
Year of Execution:	2002	
Project	Dr. Pfeifer, Engineer, Bolzano	
* ECOCENTER AG		€ 353,755.73
Expansion of the Municipality of Merano's wastewater treatment plant. Construction of a sludge drainage system using a high-capacity decanter centrifuge.		
Location of Execution:	Sinigo (BZ)	
Year of Execution:	2002	
Project	ECOCENTER A.G. - Bolzano	
* CITIS Srl		€ 517,045.72
Expansion of the "Capo Verde" wastewater treatment plant in Sanremo (IM). Construction of supply and exhaust air treatment systems using crossflow cleaners.		
Location of Execution:	Sanremo (IM)	
Year of Execution:	2002	
Project:	Municipality of Sanremo	
* VAL BADIA SEWAGE CONSORTIUM		€ 405,030.72
Expansion of the "Sompunt" wastewater treatment plant. Upgrade of the pre-treatment and condensation station.		

- Location of Execution: Municipality of Abtei (BZ)
Year of Execution: 2002
Project: Dr. Konrad Engl, Engineer, Brunico (BZ)
- * **ECOCENTER AG** € 30,666.40
Expansion of the Ponte Nova wastewater treatment plant. Measures to optimise nitrification capacity. Upgrade of slab ventilators.
Location of Execution: Ponte Nova (BZ)
Year of Execution: 2002
Project: ECOCENTER AG, Bolzano
- * **VAL BADIA SEWAGE CONSORTIUM** € 370,408.00
Expansion of the "Sompunt" wastewater treatment plant. Upgrade of the gas motor and heating systems. Various small work.
Location of Execution: Municipality of Abtei (BZ)
Year of Execution: 2003
Project: Dr. Konrad Engl, Engineer, Brunico (BZ)
- * **PUBLIC SERVICE CONSORTIUM OF THE MUNICIPALITIES OF ORTISEI, S. CRISTINA, SELVA AND CASTELROTTO** € 1,200,000.00
Expansion of the Pontives wastewater treatment plant. Delivery and upgrade of the gas motor system, gas meter, ventilation fans, waste metering.
Location of Execution: Municipality of Ortisei (BZ)
Year of Execution: 2002 - 2003
Project: Dr. Antonio Ianeselli, Engineer, Bolzano (BZ)
- * **MUNICIPALITY OF MONTANA LARIO INTELVESE** € 4,071,229.00
Construction of the main collector line of the wastewater network for the Municipality of Valle d'Intelvi (CO) and the underground wastewater

treatment plant in Colonno. Project comprised an activated sludge system with membranes (MBR) for phosphate precipitation, simultaneous denitrification and nitrification, as well as residual sludge activation with aerobic stabilisation of sludge in activation tanks

Capacity: 22.000 E.G.W.
Location of Execution: Colonno (CO)
Year of Execution: 2003 – 2005
Project ATZWANGER A.G.

* **PUBLIC SERVICE CONSORTIUM OF THE MUNICIPALITIES OF ORTISEI, S. CRISTINA, SELVA AND CASTELROTTO** € 503,785.41

Expansion of the Pontives wastewater treatment plant. Coverage of the pre-treatment systems (grit chamber/grease trap and sedimentation). Ventilation and exhaust treatment systems of the premises.

Location of Execution: Municipality of Ortisei (BZ)
Year of Execution: 2003 - 2004
Project: Dr. Antonio Ianeselli, Engineer,
Bolzano (BZ)
p.i. Dorian Caselli, Porotto (FE)

* **MUNICIPALITY OF TRENTO** € 531,500.00

Supply and installation of a groundbreaking wastewater treatment plant for the Municipality of San Martino di Castrozza (TN). The innovative system, uses MBR membrane technology for sludge treatment, and can handle throughput of 42 m²/h (on two completely separate and autonomous lines of 21 m²/h each). All machinery is built in two heat-insulated container boxes. The two stainless steel drainage tanks are portable.

Location of Execution: Fraction of Pezgaiard
Municipality of Tonadico (TN)
Year of Execution: 2003 - 2004
Project: ATZWANGER AG



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