

**REFERENCE LIST: DISTRICT HEATING SYSTEMS**  
**(SOA Kat. OG11 – OG9 – OG6)**

\* **INSTITUT FÜR GEFÖRDERTEN WOHNBAU** € 1,709,472.34

1. Thermo-hydraulic Equipment:

Turnkey delivery of complete central heating (28,000 kWth supply) with accessories, including construction work for buildings and facilities, boiler house conduits, pump stations and water treatment systems, as well as complete regulation and heat metering.

2. District Heating Grid:

Supply, installation and commissioning of a district heating system with an overall length of 4320 lm.

Conduit System: STEINBACHER  
Capacity: 28,000 kWth  
Location of Execution: Bolzano (BZ)  
Year of Execution: 1985-1986  
Planning: ATZWANGER AG

\* **WÄRMEWERK RASEN GmbH** € 2,817,147.77

Turnkey delivery, installation and implementation, including excavation and underground engineering of a district heating system with an overall length of 25,708 lm.

Conduit System: ABB-MØLLER  
Capacity: 5000 kWth  
Location of Execution: Rasun (BZ)  
Year of Execution: 1994 – 1995  
Planning: E.U.T. - Bressanone (BZ)  
Dr R. CARMINATI, Civil Engineer  
Dr K. MICHAELER, Civil Engineer

\* **LIGNA CALOR FRENADEMETZ GmbH** € 1,355,459.21

1. Thermo-hydraulic Equipment:

Supply and installation of a complete oil boiler system, as well as accessories (nominal capacity: 3000 kWth), complete boiler house conduits, diesel engine for heat-energy coupling (150 kWth supply), as well as complete regulation and heat metering.

2. District Heating Grid:

Turnkey delivery, installation and commissioning, including the overall excavation and underground engineering of a district heating grid with an overall length of 17,647 lm.

Conduit System: ABB-MØLLER  
Capacity: 7000 kWth  
Location of Execution: La Villa / Gadertal (BZ)  
Year of Execution: 1995 – 1996  
Planning: E.U.T. - Bressanone (BZ)  
Dr R. CARMINATI, Civil Engineer  
Dr K. MICHAELER, Civil Engineer

\* **FERNHEIZWERK TOBLACH GmbH**

€ 2,791,113.40

1. Contract Section:

Supply, installation and commissioning of a complete district heating grid with an overall length of 43,188 lm.

2. Contract Section:

Supply and installation of a complete pump station, heat exchanger, pressure maintenance system, crane system, and regulation system, as well as complete heating and sanitation facilities for the plant.

Conduit System: SOCOLOGSTOR  
Capacity: 8000 kWth  
Location of Execution: Dobbiaco (BZ)  
Year of Execution: 1995 – 1997  
Planning: P.I. Alfred JUD - Valdaora / Brunico (BZ)

\* **ENERGIEVERSORGUNG VALS GmbH**

€ 901,411.53

Turnkey delivery, installation and commissioning of the district heating grid, including excavation and underground engineering, with an overall length of 15,240 lm.

Conduit System: KE – KELLIT  
Location of Execution: Valles (BZ)  
Year of Execution: 1997  
Planning: SCHNEIDER – Trofaiach (A)

\* **AZIENDA ENERGETICA METROPOLITANA TORINESE SpA** € 2,239,357.11

1. Thermo-hydraulic Equipment:

Supply and installation of 35 heat transfer stations, including accessories and connection to the sole recipient, including the pump station and distributor.

2. District Heating Grid:

Supply, installation and commissioning of district heating systems in the areas of "LE VALLETTE", "CASTELGOMBERTO-MIRAFIORI" and "BARICENTRO TERMICO N.54", including excavation and underground engineering, with an overall length of 5135 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Turin (TO)

Year of Execution: 1997-1998

Planning: ATZWANGER AG

\* **AZIENDA SERVIZI MUNICIPALIZZATI SpA – ROVERETO** € 2,882,865.08

Supply and installation of a district heating system, first contract section and additional work for the installation of transfer stations and the installation of a control device, with an overall length of 8904 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Rovereto (TN)

Year of Execution: 1998 - 1999

Planning: ATZWANGER AG

\* **AZIENDA ENERGETICA METROPOLITANA TORINESE SpA** € 5,164,568.99

1. Thermo-hydraulic Equipment:

Supply and installation of 63 heat transfer stations as well as accessories and connection to the sole recipient.

2. District Heating System:

Supply, installation and commissioning of a district heating system in the ALFA zone, main lead with a calibre of 500/710, including excavation and underground engineering, with an overall length of 6,000 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Turin (TO)

Year of Execution: 1998 - 1999

Planning: ATZWANGER AG

\* **AZIENDA SERVIZI MUNICIPALIZZATI SpA – ROVERETO** € 3,184,086.03

Supply and installation of a district heating system – second contract section and additional work for the installation of transfer stations, main lead with a calibre of 350/500, including excavation, underground engineering and installation of a data network for remote monitoring; overall length: 14,500 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Rovereto (TN)

Year of Execution: 1999 - 2000

Planning: ATZWANGER AG

\* **GEMEINDE PONTEDASSIO** € 473,590.97

Turnkey delivery of district heating, including a DH station with heat-energy coupling. Supply, installation, commissioning and 10-year management of:

- Methane boiler and heat-energy coupling;
- Thermo-hydraulic system and remote monitoring of the DH station;
- District heating grid, including excavation and underground engineering, with an overall length of about 1100 lm.
- Heat transfer stations, including remote monitoring, regulation and commissioning for about 7 recipients.

Installed Capacity: 1000 kWth

Conduit System: SOCOLOGSTOR

Location of Execution: Pontedassio (IM)

Year of Execution: 1999

Project and Site Management: Dr SISMONDINI, Civil Engineer –  
Ventimiglia

\* **AZIENDA ENERGETICA METROPOLITANA TORINESE SpA** € 5,164,568.99

1. Thermo-hydraulic Equipment:

Supply and installation of a heat transfer station, complete with

accessories and connection to the sole recipient.

2. District Heating Grid:

Supply, installation and commissioning of a DH grid in the ALFA zone, second phase main lead with a calibre of 500/710, including excavation and underground engineering, with an overall length of 6000 lm.

Conduit System: SOCOLOGSTOR  
Location of Execution: Turin (TO)  
Year of Execution: 1999 - 2000  
Planning: ATZWANGER AG

\* **BIOENERGIA FIEMME SpA – FERNHEIZWERK CAVALESE**

€ 12,136,737.13

Turnkey delivery of the overall biomass district heating station of Cavalese, including supply, installation and commissioning (as well as 3 months plant management) of:

- Overall construction of the DH station;
- Biomass-Heat Boiler, including automated loading system and flue gas purification and condensation systems;
- Methane boiler and heat-energy coupling;
- Thermo-hydraulic System and remote monitoring system for the DH station;
- District heating grid, including excavation and underground engineering, with an overall length of about 20,000 lm;
- Heat transfer stations, including remote monitoring, regulation and commissioning for about 400 recipients;
- Electrical system for the DH plant.

Installed Capacity: 12,400 kWth  
Biomass-Heat Boiler: KOHLBACH  
Conduit System: SOCOLOGSTOR  
Location of Execution: Cavalese (TN)  
Year of Execution: 1999 – 2001  
Planning and Site Management: E.U.T. Bressanone – Dr Roberto  
CARMINATI, Civil Engineer

- \* **AZIENDA ENERGETICA METROPOLITANA TORINESE SpA** € 5,164,568.99

Supply, installation and commissioning of a district heating station integrated with a line main of calibre 700/900, including excavation and underground engineering, with an overall length of 2000 lm.

Conduit System: ABB – MØLLER

Location of Execution: Turin (TO)

Year of Execution: 2000 - 2001

Planning: ATZWANGER AG
  
- \* **AZIENDA SERVIZI MUNICIPALIZZATI SpA – ROVERETO** € 1,215,822.14

Supply and installation of 106 heat transfer stations complete with accessories and connection to the sole recipient for Rovereto's DH grid.

Location of Execution: Rovereto (TN)

Year of Execution: 1999 – 2000

Planning: ASM SpA Rovereto
  
- \* **PFELDERER GENOSSENSCHAFT GmbH** € 348,608.41

Supply, installation and commissioning of a district heating grid with an overall length of about 3500 lm. Supply and installation of 27 heat transfer stations.

Conduit System: SOCOLOGSTOR

Location of Execution: Moso in Passiria (BZ)

Year of Execution: 2001

Project and Site Management: Dr H. v. Hepperger, Civil Engineer  
– Bolzano
  
- \* **TONALE ENERGIA Srl** € 917,609.31

Supply, installation and commissioning of a district heating system, including excavation and underground engineering, with an overall length of about 6500 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Passo del Tonale - Vermiglio (TN)

Year of Execution: 2001 – 2002

Project and Site Management: EVOLVE S.r.l. - Dr Edoardo CITTER, civil

engineer – Milan

\* **STADTWERKE BRUNECK**

€ 779,343.68

Supply, installation and commissioning of a district heating system, fourth contract section, calibre 400/600, including excavation and underground engineering with an overall length of about 3000 lm.

Conduit System: ISOPLUS

Location of Execution: Brunico (BZ)

Year of Execution: 2001

Project and Site Management: E.U.T. - Dr Roberto CARMINATI, Civil Engineer – Bressanone

\* **ENERGIEGENOSSENSCHAFT SULDEN GmbH**

€ 2,049,989.01

Supply, installation and commissioning of a district heating system, including excavation and underground engineering, with an overall length of about 9700 lm. Work executed as a joint venture.

Conduit System: ISOPLUS

Location of Execution: Solda (BZ)

Year of Execution: 2001 – 2002 (under construction)

Project and Site Management: E.U.T. – Dr Roberto CARMINATI, Civil Engineer – Bressanone

\* **HEIZWERK SARNTHEIN GmbH**

€ 1,704,307.77

a) Thermo-hydraulic Equipment:

Supply and installation of a complete oil boiler system, together with accessories (nominal capacity: 4000 kWth), complete boiler house conduiting, pump station and water treatment system, as well as complete regulation and heat metering.

b) District Heating Grid:

Supply, installation and commissioning of a district heating grid with an overall length of 6500 lm.

c) Heat Transfer Stations:

Supply, installation and commissioning of heat transfer stations for about 127 recipients.

Conduit System: ISOPLUS  
Location of Execution: Sarentino (BZ)  
Year of Execution: 2001 – 2002 (Execution phase)  
Project and Site Management: Dr Hannes von Hepperger, Civil  
Engineer – Bolzano

\* **ECOTERMICA SAN MARTINO SpA –**

€ 10,845,594.88

**FERNHEIZUNG SAN MARTINO DI CASTROZZA**

Turnkey delivery of San Martino di Castrozza's complete biomass-fueled district heating system, including the supply, installation and commissioning of:

- Overall construction of the DH system;
- Biomass boiler, including automated loading system and flue-gas purification and condensation systems;
- Oil boiler and heat-energy coupling;
- Thermo-hydraulic system and remote monitoring system for DH station;
- District Heating grid, including excavation and underground Engineering, with an overall length of about 12,000 lm;
- Heat transfer stations, including remote monitoring and regulation for about 300 recipients;
- Electrical system for the DH station.

Installed Capacity: 16,100 kWth  
Biomass Boiler: JÄRNFORSEN / VAS  
Conduit System: SOCOLOGSTOR  
Location of Execution: San Martino di Castrozza (TN)  
Year of Execution: 2002 – 2003 (Execution phase)  
Project: E.U.T. - Dr Roberto CARMINATI, Civil  
Engineer – Bressanone  
Site Management: Dr Daniele Depaoli, Civil Engineer –  
Fiera di Primiero (TN)

\* **STADTWERKE BRUNECK**

€ 1,314,734.73

Supply, installation and commissioning of a district heating system, tenth

contract section, including excavation and underground engineering,  
with an overall length of about 3700 lm.

Conduit System: SOCOLOGSTOR  
Location of Execution: Bruneck (BZ)  
Year of Execution: 2002 - 2003  
Project and Site Management: E.U.T. – Dr. Roberto  
CARMINATI, Civil Engineer –  
Bressanone

\* **STADTWERKE BRIXEN** € 104,312.63

Supply, installation and commissioning of a district heating system, first  
contract section, with an overall length of about 320 lm

Conduit System: SOCOLOGSTOR  
Location of Execution: Bressanone (BZ)  
Year of Execution: 2002  
Project and Site Management: Technical Office – Stadtwerke  
Brixen

\* **GEMEINDE S. QUIRICO D'ORCIA** € 129,000.00

Supply, installation and commissioning of conduits insulate in rustproof  
stainless steel for heating water conduits with an overall length of about  
700 lm.

Conduit System: SOCOLOGSTOR  
Location of Execution: S. Quirico d'Orcia – Bagno Vignoni (SI)  
Year of Execution: 2002  
Project and Site Management: Technical Office – Comune di S. Quirico  
d'Orcia

\* **AMPS SpA - PARMA** € 3,769,380.84

1. Thermo-hydraulic Equipment:

Supply and installation of 63 heat transfer stations complete with  
accessories and connection to the sole recipient.

2. District Heating Grid:

Supply, installation and commissioning of a DH grid, including excavation and underground engineering (Expansion of a district heating system and construction of house connections) in the municipality of Parma, with an overall length of 2,809.5 km.

Conduit System: SOCOLOGSTOR  
Location of Execution: PARMA  
Year of Execution: 2003 – 2004  
Project and Site Management: ATZWANGER SpA

\* **AMPS SpA - PARMA**

€ 1,358,283.95

1. Thermo-hydraulic Equipment:

2. Supply and installation of 27 heat transfer stations, together with accessories and connection to the sole recipient.

3. District Heating Grid:

Supply, installation and commissioning of a DH grid, including excavation and underground engineering (Expansion of a district heating system and construction of house connections) in the municipality of Parma, with an overall length of 1,024.28 km.

Conduit System: SOCOLOGSTOR  
Location of Execution: PARMA  
Year of Execution: 2004  
Project and Site Management: ATZWANGER SpA

\* **WÄRMEWERK LATZFONS Srl**

€ 617,148.11

Turnkey delivery, installation and commissioning of a district heating grid, including all excavation and underground engineering, with an overall length of 3,720 m.

Conduit System: LOGSTOR  
Location of Execution: Latzfons (BZ)  
Year of Execution: 2004  
Project and Site Management: Dr Hannes Hepperger, Civil Engineer –

Bolzano

\* **AZIENDA ENERGIA E SERVIZI TORINO SpA** € 11,000,000.00

Construction of calibre 700 main leads and distributors, including excavation work and additional accessories, with an overall length of 4300 lm.

Conduit System: SOCOLOGSTOR

Location of Execution: Central Turin

Year of Execution: currently under construction

Project and Site Management: ATZWANGER SpA

\* **AZIENDA ENERGIA E SERVIZI TORINO SpA** € 11,390,000.00

Construction of distribution network, as well as related above- and underground engineering, excavation work and additional accessories, with an overall length of 26,000 lm.

Conduit System: LOGSTOR

Location of Execution: TORINO - CENTRO

Year of Execution: currently under construction

Project and Site Management: ATZWANGER SpA

\* **WARMWOOD Srl - VIDICIATICO** € 10,845,594.88

Turnkey delivery of Vindicatico's entire biomass-fueled district heating grid, including supply, installation and commissioning of:

- All construction of the DH station;
- Biomass boiler, including automated loading system and flue-gas purification and condensation systems;
- Thermo-hydraulic and remote monitoring systems for the DH plant;
- District heating grid, including excavation and underground engineering, with an overall length of about 5100 lm;
- Heat transfer stations, including remote monitoring and regulation for about 169 recipients;
- Electrical system for DH station.

Installed Capacity: 3000 kWth  
Biomass Boiler: VAS  
Conduit System: LOGSTOR  
Location of Execution: Vidiciatico (BO)  
Year of Execution: currently under construction  
Project and Site Management: ATZWANGER SpA

\* **FERNHEIZWERK KLAUSEN GmbH**

€ 288,657.04

**FERNHEIZWERK LATZFONS - HEIZZENTRALE**

Thermo-hydraulic Equipment:

Complete supply and installation of oil boiler system, as well as accessories (nominal capacity: 2600 kWth), complete boiler house conduiting, regulation and heat metering.

Location of Execution: Latzfons (BZ)  
Year of Execution: 2005 (under construction)  
Project and Site Management: Dr Hannes von Hepperger, Civil Engineer – Bolzano

\* **STADTWERKE BRUNECK**

€ 1,578,949.11

Supply, installation and commissioning of a district heating system, twentieth contract section, including excavation and underground engineering, with an overall length of about 7500 lm.

Conduit System: Alstom  
Location of Execution: Brunico (BZ)  
Year of Execution: 2005 – 2006 (under construction)  
Project and Site Management: E.U.T. – Dr Roberto CARMINATI, Civil Engineer – Bressanone