

CV

Mario Ortner



1. **Family name:** **ORTNER**
2. **First names:** Mario Alfred Peter
3. **Date of birth:** April 1st, 1965
4. **Nationality:** Austrian
5. **Education:**

Institution	Technical University, Vienna, Austria
Date:	from 1995 to 2001
Degree(s) or Diploma(s) obtained:	Ph.D. in chemical engineering

Institution	Technical University, Vienna, Austria
Date:	from 1984 to March 1990
Degree(s) or Diploma(s) obtained:	M.Sc. in mechanical engineering

6. **Language skills:** (Mark 1 to 5 for competence) 5 = best
1 = worst

Language	Reading	Speaking	Writing
German	mother tongue		
English	5	5	5
Italian	1	1	1
Russian	1	1	1

7. **Membership of professional bodies:** none

8. **Other skills:** Civil engineer in mechanical engineering
9. **Present position:** Managing Director
Senior Expert on Heating and Cogeneration plants
Senior Expert on District Heating
Senior Expert on Energy Efficiency
Senior Expert on Renewable Energies and Cogeneration

10. **Years within the firm:** since 1995

11. **Key qualifications:** (Relevant to the program)

- 30 years of post-graduate professional experience.
- Considerable project experience for mid and large size CHP and D.H systems from project development until project monitoring phase.
- Expert for computer based CHP process simulation and process optimization for retrofits.
- Cost Benefit Analyses of medium and large size District Heating networks and CHP/HoB plants
- Development including LCC-Analyses, design, structured financing, and operation etc. of renewable energy based heating and cogeneration plants and distribution facilities Emphasis on biomass, biogas, geothermal energy, hydro and wind energy as renewable energy sources including experience with operation of Biomass and Biodiesel plants and combinations with sawmills and wood pellet production units.
- Energy efficiency measures on the demand side.
- Considerable project experience in Central and Eastern Europe and EU countries.
- Excellent Knowledge of procurement procedures (EU-PRAG, FIDIC rules, EBRD, EIB);
- Excellent organisational, communication and reporting skills

12. Country experience

12.a. Central and Eastern European country experience:

Country	Date: from (month/year) to (month/year)
Romania	from 2000 to date
Croatia	from 2002 to date
Ukraine	from 2007 to date
Russia	from 2002 to 2008
Serbia	from 2010 to date
Bosnia	from 2010 to date
Kosovo	from 2010 to date
Montenegro	from 2012 to date
Mazedonia	from 2021
Regional Europe	from 2000 to date
Slovenia	from 1997 to 2002
Hungary	from 1995 to 2003
Moldova	from 2001 to 2002
Bulgaria	from 1998 to 2009
Belarus	1998
Poland	from 1996 to 1997, 2000
Czech Republic	from 1996 to 1998

12.b. Other country experience:

Country	Date: from (month/year) to (month/year)
China	from 2004 to 2009, 2019
Austria	from 1990 to date
Finland	from 2002 to 2005
France	from 2002 to 2005
Uganda	2004
Italy	from 2002 to 2013
Sweden	from 2002 to 2005
Jordan	2013
Portugal	from 2002 to 2005
Germany	from 1996 to date
Morocco	from 2008 to 2010
Argentina	from 2007 to 2008
Georgia	2011
Malaysia	2011
Switzerland	2011 to 2014
Jordan	2013 to 2016
Egypt	2013 to 2015
Kazakhstan	2017
Cambodia	2017 to date

13. Professional experience record:

Date	from 1997 to date
Location	Mils and Vienna, Austria
Company	Ziviltechnikerbüro DI Dr. Mario Ortner
Position	Owner
Description	Consulting and planning of energy facilities, Certified Court Expert Handelsgericht Wien, www.zt-ortner.at
Date	From 2019
Location	Phnom Penh, Cambodia // Mils, Austria
Company	ORTNER ENERGY GROUP
Position	Director, Founder
Description	Investor, operator of PV island solutions, www.ortner-energy.com
Date	from 2007 to 2018
Location	Vienna, Austria
Company	iC projecte GmbH Member of iC group www.ic-group.org
Position	Managing Director, shareholder
Description	Consulting and planning of energy facilities, with an emphasis on CHP, D.H facilities and renewable energy, CHP retrofit expert.
Date	from 1995 to 2007
Location	Vienna, Austria
Company	iC consulenten ZT GmbH, Member of iC group www.ic-group.org
Position	PARTNER + Managing Director
Description	Consulting and planning of energy facilities, with an emphasis on CHP, D.H facilities and renewable energy, CHP retrofit expert.
Date	from 1990 to 1995
Location	Vienna, Austria
Company	ASEA Brown Boveri Energy AG
Position	Project Manager
Description	Cogeneration plants, gas turbines, steam turbines, biomass plants, Retrofit, planning and project management.

14. Others:

14.a. Selected references: (see Appendix A)

14.b. Publications, Lectures, Seminars: numerous lectures and seminars within the framework of Phare, Interreg, Worldbank, EBRD and EU projects, VDI-lectures, IIR
2011: Technical University Kiev/Ukraine: Project development of Renewable projects

2010, 2011: Energy Institute Pozar /Zagreb; Project development of Renewable projects
2011: Kuala Lumpur / Malaysia: Trainer of Workshop "Power Plant Optimization; Maximizing Energy & Capacity Efficiencies ", organized by UNI Strategic Pte Ltd
2018: 5 days training for Biomass CHP technology; Phnom Penh (UNIDO)
2018: Comparison of different Biomass CHP technologies incl. case study; presentation at the Biomass exhibition in Sarajevo (Bosnia & Herzegovina) for GIZ

14.c. Academic teaching:

- Univ. Lector at Technical University Vienna (Business Education Center) for Renewables (Biomass) Master Thesis since 2006
- Univ. Lector at Technical University Vienna (Environmental Technologies and International Affairs) for Diplomatic Academy Vienna since 2012
- Lector at the HTL (College for Engineering) Innsbruck for energy and environmental technology since 1999
- Lector at FH Kufstein (Management methods) since 2015

14.d. Memberships:

- bAIK Chamber of Architects and Engineering Consultants
- Austrian Association of Licensed Experts to the Austrian Courts

Certification:

I, the undersigned herewith certify that to the best of my knowledge and belief, these data correctly describe qualification, my experience and me.

Mario Ortner (PASSPORT No. U4510492 Austria); m.ortner@ic-projecte.org

Cell: +43-664-3013040

Signature

Date: 07.01.2021



Appendix A

SELECTED REFERENCES

Project: **Western Balkans Investment Framework Infrastructure Project Facility
Technical Assistance 10 (IPF 10)**

Department: Energie, Transport, Digitalization, Social issues, Environment
Subject: Technical Assistance
Client: Consortium PLANET(lead), DETECON, ENVIROPLAN, SYSTEMA, TYP SA group
Country: **Serbia, Bosnia, Macedonia, Kosovo, Albania**
Period: 2021-ongoing
Services: Team Leader, Provide technical expertise to assist Beneficiaries and IFIs with the preparation of the selected priority infrastructure Sub-Projects and associated actions

Project: **Biomass CHP-6.5 MWe / Kufstein / Tirol**

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating, Biomass
Client: Bioenergie Kufstein GmbH
Country: **Austria**
Period: 2020
Services: Team Leader, Cost Benefit Analyse, Calculation of the current market value, preparation for M&A transaction

Project: **Biomass CHP-1.5 MWe / HoB 11 MWt Gjakova**

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating, HoB, Biomass
Client: EGIS international
Country: **Kosovo**
Period: 2019 - 2021
Services: Team Leader, overall project monitoring in the implementation phase, Development plan with Cost benefit analyses, Biomass supply chain expert, CHP expert

Project: **Hybrid large scale PV plant Koh Rong Island/ Cambodia 1.5 MWp**

Department: Energy & Environment, Buildings & Structures
Subject: PV + battery system LiFeP04
Client: ORTNER ENERGY
Country: **Cambodia**
Period: 2019 – 2020 - ongoing
Services: Owner and Operator of a large-scale hybrid PV plant island solution on Koh Rong island /Cambodia. Plant in operation since October 2020. Project development, engineering, tendering, implementation with own team. Financed with equity and Crowd funding (www.crowd4climate.org)

Project: **District Heating and Cooling City Centre Innsbruck/Tirol**

Department: Energy & Environment, Buildings & Structures
Subject: District Heating, District Cooling, Renewable Energies
Client: Innsbrucker Kommunalbetriebe IKB
Country: **Austria**
Period: 2019
Services: Expertise District Heating and District Cooling Variants for the City Centre of Innsbruck

Project: **Biomass CHP-1.5 MWe /HoB 11 MWt Gjakova**

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating, HoB, Biomass
Client: EGIS international
Country: **Kosovo**
Period: 2018-2019
Services: Review of detail design, technical assistant during project implementation, tender procedure, member of the evaluation team

Project: **Claim Management concerning KruppThyssen of steel production facility**

Department: Energy & Environment, Buildings & Structures
Subject: Claim management
Client: SMB Industrienanlagenbau GmbH
Country: **Austria**
Period: 2018- ongoing
Services: Contract Management, preparation of expertise concerning cost overrun

Project: **National Energy Efficiency Financing Mechanism Roadmap and Supporting the Establishment of Competitive Energy Efficiency Tender Mechanism in Turkey**

Department: Energy & Environment, Buildings & Structures
Subject: District Heating
Client: Frankfurt School financed by EBRD, beneficiary: Ministry of Energy Turkey
Country: **Turkey**
Period: 2019 ongoing
Services: EE International Expert

Project: **Biomass CHP/HoB Gjakova / Kosovo**

Review of the preliminary design

Department: Energy & Environment, Buildings & Structures
Subject: District Heating
Client: European Commission
Country: **Kosovo**
Period: 2019
Services: CHP/HoB International Expert

Project: **DH System and Substation Pristina / Kosovo**

Review of the preliminary design

Department: Energy & Environment, Buildings & Structures
Subject: District Heating
Client: European Commission
Country: **Kosovo**
Period: 2019
Services: DH International Expert

Project: **DH network including of the Romanian Cities Oradea, Focsani and Bacau**

Elaboration of a Long Term Investment Program with Priority Investment Plan

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, industrial heat, cooling, DH
Client: Municipalities of Bucharest financed by EIB (through EQONIXUS)
Country: **Romania**
Period: 2018 -2019
Services: Technical Assistance for the Assessment of DH Projects in Croatia and Romania
Feasibility study, Cost benefit analyses, Project application to EIB; TEAMLEADER

Project: **Biomass CHP 5 MWe South Africa**

Evaluation of the current market value of a 5 MWe Biomass CHP

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, biomass
Client: **NATURAL DEHYDRATED FOODS (PTY) LTD**
Country: **South Africa**
Period: 2018
Services: Expertise to evaluate the current market value of a 5 MWe Biomass CHP plant which will be disassembled in Austria and implemented in South Africa

Project: **Biomass CHP Cambodia**

Technical assistance in the tender phase: 1.5 MWe biomass CHP based on rice husk and 50 kWe biomass gasification process

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, biomass
Client: UNIDO
Country: **Cambodia**
Period: 2018
Services: International Consultant ISA

Project: **Certified Environment Expertise for the DH network Vösendorf, DH pumping station Arsenal and hot water storage Simmering of the DH system of Vienna**

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating
Client: Wien Energie GmbH
Country: **Austria**
Period: 2018
Services: Environment Expertise for approval for Austrian Ministry of Environmental Affairs

Project: **Biomass CHP Gjakova / Kosovo**

Revision of the Tender Documents

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating
Client: GFA Consulting Group GmbH
Country: **Kosovo**
Period: 2018
Services: Support on Implementing 3rd Energy Package with Focus on Energy Efficiency and Renewables, Senior International Non Key Expert; Process simulation, revision of the CHP design.

Project: **Rehabilitation DH network City of Bucharest**

Feasibility for the rehabilitation of 200 km pipes for Magistru II and Ring Road up to DN 1300

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, industrial heat, cooling
Client: Municipality of Bucharest financed by EIB (through EQONIXUS)
Country: **Romania**
Period: 2017-2018
Services: Technical Assistance for the Assessment of DH Projects in Croatia and Romania
DH Key Expert, Feasibility study, Cost benefit analyses, Project application to Jaspers (EC, EBRD, EIB)

Project: **Biomass CHP Cambodia**

Feasibility studies for 7 selected sites

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, industrial heat, cooling
Client: UNIDO (GEF financed)
Country: **Cambodia**
Period: 2017-2018
Services: International Consultant ISA

Project: **Uralsk District Heating Modernization Project**

Feasibility study

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating
Client: CES clean energy solution GmbH (contracted by EBRD)
Country: **Kazakhstan**
Period: 2017
Services: CHP Key Expert

Project: **Court Expert Energie Steiermark Wärme – Verbund Thermal Power GmbH & Co /VERBUND AG**
Court Expert at Higher Regional Court of Vienna (Oberlandesgericht Wien als Kartellgericht)

Department: Energy & Environment, Buildings & Structures
Subject: Cogeneration, District Heating
Client: Higher Regional Court of Vienna
Country: **Austria**
Period: 2016 -2017
Services: Court expert concerning Thermal power plants Mellach and Werndorf

Project: **Kyivenergo Municipality Solid Waste Incineration plant “Energia” 250.000 t/yr of Kiev**
Audit report

Department: Energy & Environment, Buildings & Structures
Subject: Waste management, District Heating, Flue gas cleaning, project assessment of a 30 yrs old MSW plant
Client: City of Kiev / IFC / Imepower
Country: **Ukraine**
Period: 2016
Services: Technical Assessment of the plant, **Key Expert**

Project: **Al Jazeera Agricultural Company, Jordan**
Audit report

Department: Energy & Environment, Buildings & Structures
Subject: Re-source efficiency benchmarking and waste management opportunities, solutions for 50.000 tons/yr of animal wastes
Client: EBRD
Country: **Jordan**
Period: 2016
Services: Technical Adviser, Due Diligence, **Team Leader**

Project: **Central heating Station of University Hospital of Innsbruck, 60 GWh heat/yr**
Pre-Feasibility Study

Department: Energy & Environment, Buildings & Structures, District Heating
Subject: Central Heating station of the University Hospital of Innsbruck
Client: Amt der Tiroler Landesregierung
Country: **Austria**
Period: 2015 -2016
Services: Technical Adviser, Due Diligence, **Team Leader**

Project: **Absortion Chiller incl. waste heat recovery 2500 kW at TRM / Hall i. Tirol**

Tender Engineering

Department: Energy & Environment, Buildings & Structures, District Heater

Subject: Renewable Energy

Client: Tigas Erdgas Tirol GmbH

Country: **Austria**

Period: 2014 to 2015

Services: Engineering, Tendering, **Team Leader**

Project: **Biomass CHP 10 MWe Klagenfurt of RZ group**

Due Diligence

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: RZ group

Country: **Austria**

Period: 2014 to 2015

Services: Due Diligence Report (addressee European Investment Bank) of the 10 MWe biomass CHP HKW Ost for the heat supply of D.H system of Klagenfurt, **Team Leader**

Project: **Biomass CHP 7.5 MWe Vöcklamarkt /OÖ of RZ group**

Due Diligence

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: Raiffeisen International / Raiffeisen Landesbank OÖ

Country: **Austria**

Period: 2013 to 2015

Services: Due Diligence Report of the 7,5 MWe biomass CHP for the heat supply of the existing Pellets production unit and existing D.H net, **Team Leader**

Project: **Valuation expertise for the Pellets production plant and Biomass CHP of Vöcklamarkt,**

Consultancy services

Department: Energy & Environment, Buildings & Structures

Subject: Energy Efficiency, District Heating; Renewable Energy; Energy Audit

Client: Raiffeisen Landesbank Oberösterreich

Country: **Austria**

Period: 2014

Services: Consultancy

Project: **Water and Energy Audit Baharya Oasis of Juhayna /Egypt**

Water & Energy Audit

Department: Energy & Environment, Water, Buildings & Structures

Subject: Renewable Energy, Water

Client: Juhayna Group financed by EBRD through SEMED Energy Audit Program (FC588/ESEM-2012-10-18F)

Country: **Egypt**

Period: 2013

Services: Energy and water audit for the Baharya Oasis of Al-Enmaa a daughter company of Juhayna. Installation of Biogas unit for 14.000 Holstein cattles and approx. 2000 ha of water irrigation systems for agricultural plantations in the Sahara desert, **Team Leader**

Project: **15 Biomass CHP and HoB projects in Serbia**

Pre-Feasibility Study.

Department: Energy & Environment, Buildings & Structures, District Heating

Subject: Renewable Energy

Client: Ministry of Energy /Serbia financed bei KfW

Country: **Serbia**

Period: 2013- 2015

Services: Pre-Feasibility Study for the development of best 15 locations for CHP and HoB plants in Serbia. **Cogeneration Key Expert**

Project: **Installation of Absorption Chiller at Tiroler Röhrenwerke Hall i. Tirol**

Consultancy services

Department: Energy & Environment, Buildings & Structures, Smart Metering

Subject: Energy Efficiency, District Heating

Client: TIGAS Erdgas Tirol GmbH

Country: **Austria**

Period: 2013

Services: Measurement of waste heat an energy, conceptual design; Smart Metering; **Team Leader**

Project: **District Cooling and Heating System Vienna for Hauptbahnhof, Schottenring, SMZ, Spittelau, Gudrunstrasse, Ottakringerstrasse, MGC, Rudolfsstiftung**

Environmental Expertice

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy, Waste heat

Client: Wien Energie GmbH

Country: **Austria**

Period: 2010 to 2016

Services: Energy and Environmental Audit / Expertice for addressee Austrian Ministry of **Economic affairs);Team Leader**

Project: **Papermill Al Keena and Al Snobar of Nuqul-Group / Jordan**

Energy Audit

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: Nuqul Group financed by EBRD through SEMED Energy Audit Program (FC588/ESEM-2012-10-18F)

Country: **Jordan**

Period: 2013

Services: Energy Audit for the reduction of energy costs by installation of Concentrated Solar Power (CSP); Production of steam, hot air and electricity, **Team Leader**

Project: **Biomass CHP Sulceava 30 MWel / Romania**

Feasibility Study, Project Controlling

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: Raiffeisen International Vienna

Country: **Romania**

Period: 2013 to 2016

Services: Feasibility Study, Due Diligence Report and Project Controlling during implementation phase of the 30 MWel biomass CHP, plant in operation since 18. Dec. 2013; **Team Leader**

Project: **Biomass CHP Subotica / Serbia**

Feasibility Study.

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: Toplana Subotica / financed bei KfW

Country: **Serbia**

Period: 2012, 2013

Services: Feasibility Study for location permit, **Team Leader**

Project: **Windpark Global Tech 1 OFFSHORE / Windreich / Germany**

Technical Quick Check for the preparation of a 5% transaction of Swisspower total 400 MW (80 x Areva M5000) installed capacity.

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: SWISSPOWER

Country: **Switzerland, Germany**

Period: 2012

Services: Quick Check, M&A, **Team Leader**

Project: **Windpark Hof / Windreich / Germany / SUCCESSFUL Transaction**

Technical and economical Due Diligence for the preparation of a BO for the purchase of Windpark Hof total 18,5 MW (8 x Enercon E-82) installed capacity of the company Windreich

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: SWISSPOWER

Country: **Switzerland, Germany**

Period: 2012

Services: Due Diligence, M&A, **Team Leader**

Project: **OTI/FISI / Italy Hydro Power Plants**

Technical and economical Quick Check for the purchase of 9 HPP total 30 MW installed capacity of the Italian utility OTI/FISI

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: SWISSPOWER

Country: **Switzerland, Italy**

Period: 2012

Services: Quick Check, **Team Leader**

Project: **Sorgenia / Italy Hydro Power Plants**

Technical and economical Due Diligence for the preparation of a NBO for the purchase of 5 HPP total 8 MW installed capacity of the Italian utility Sorgenia

Department: Energy & Environment, Buildings & Structures

Subject: Renewable Energy

Client: SWISSPOWER

Country: **Switzerland, Italy**

Period: 2011

Services: Due Diligence, **Team Leader**

Project: **Biomass CHP Koprivnica 20 MWel**

Consultancy services

Department: Energy & Environment, Buildings & Structures

Subject: Energy Efficiency, Renewable Energy

Client: etwoenergy

Country: **Croatia**

Period: 2011 to 2015

Services: Feasibility Study, Engineering, Project Management, **Team Leader**

Project: **Biomass Heating Plant 6 MW incl. District Heating net for Mestia / Svaneti / Georgia**
Consultancy services

Department: Energy & Environment, Buildings & Structures, District Heating
Subject: Energy Efficiency, District Heating; Renewable Energy; Energy Audit
Client: Ministry of Energy and Natural Resources of Georgia
Country: **Georgia**
Period: 2011
Services: Consultancy, Feasibility Study, **Team Leader**

Project: **Biogas Plant 1 MWel Crnac / Croatia**
Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, Renewable Energy
Client: RIGI Real Estate GmbH
Country: **Croatia**
Period: 2011
Services: Consultancy, Project Development; Feasibility Study

Project: **Technical Due Diligence of 6 MWel Biomass CHP Pfaffenhofen / Bavaria / Germany**
Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, District Heating; Renewable Energy; Energy Audit
Client: PricewaterhouseCoopers AG Berlin
Country: **Germany**
Period: 2011
Services: Consultancy, Energy Audit

Project: **Technical Due Diligence of 8 MWel Biomass CHP Bardejov / Slovakia and Biomass CHP Topolcany for entrance Cycleenergy AG**
Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, District Heating; Renewable Energy; Energy Audit
Client: Cycleenergy AG
Country: **Austria**
Period: 2011
Services: Consultancy, Energy Audit

Project: **District Heating “Back bone” system between Innsbruck and Wattens with a distance of 19km trench; Los 1**
Consultancy services

Department: Energy & Environment, Buildings & Structures, Smart Metering
Subject: Energy Efficiency, District Heating
Client: TIGAS Erdgas Tirol GmbH
Country: **Austria**
Period: 2010 - 2011
Services: Detail Engineering, Tendering, Monitoring; **Team Leader**

Project: **Technical and Economical Due Diligence of biomass CHP plants (Waidhofen, Gaishorn, Aschach, Gresten, Aschbach and Allentsteig) in Austria of Cycleenergy AG for entrance of Halley’s – group in Cycleenergy AG**
Consultancy services

Department: Energy & Environment, Buildings & Structures, District Heating
Subject: Energy Efficiency, Renewable Energy, Energy Audit
Client: Stardust Luxembourg (Halley’s Group)
Country: **Austria**
Period: 2010
Services: Consultancy, Energy Audit, **Team Leader**

Project: **Biomass CHP Plant with heat delivery to existing DH network in Subotica / Serbia**
Consultancy services

Department: Energy & Environment, Buildings & Structures, District Heating
Subject: Energy Efficiency, Renewable Energy, Energy Audit
Client: KfW
Country: **Serbia**
Period: 2010
Services: Consultancy, Energy Audit, Pre-Feasibility Study

Project: **Biogas Plant 0,5 MWel for 85.000 t/y of Poultry manure of Soyuz-DAG Poultry Farm in Dnipropetrovsk / Ukraine; UKEEP 2 Program**
Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, Renewable Energy, Energy Audit
Client: European Bank for Reconstruction and Development
Country: **Ukraine**
Period: 2010
Services: Consultancy, Energy Audit

Project: **Biogas Plant 1,6 MWel for 85.000 t/y of Poultry manure of Kyivska Poultry Farm in Kiev / Ukraine; UKEEP 2 Program**

Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, Renewable Energy, Energy Audit
Client: European Bank for Reconstruction and Development
Country: **Ukraine**
Period: 2010
Services: Consultancy, Energy Audit

Project: **Bubbling Fluidized Bed Combustion for Poultry manure of Dnjeprovskaya Poultry Farm in Nikopol / Ukraine; UKEEP 2 Program**

Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, Renewable Energy, Energy Audit
Client: European Bank for Reconstruction and Development
Country: **Ukraine**
Period: 2010
Services: Consultancy, Energy Audit

Project: **Energy Efficiency and Renewable Energy Services EEFF2006-2007 Serbia, Bosnia and Herzegovina, Croatia, FYROM, Albania, Kosovo under UNSCR1244, Montenegro**

Consultancy services

Department: Energy & Environment, Buildings & Structures
Subject: Energy Efficiency, Renewable Energy
Client: European Investment Bank (EIB)
Country: **Serbia, Bosnia and Herzegovina, Croatia, FYROM, Albania, Kosovo under UNSCR1244, Montenegro**
Period: 2010 -
Services: Consultancy, **Team Leader**

Project: **Consultancy Services Regarding the Implementation of the Energy Efficiency Programme2 of the EBRD in the Ukraine**

Following the success of the Ukraine Energy Efficiency Programme ("UKEEP") EBRD launched a complementary Sustainable Energy Financing Facility for SMEs. As successful partner iC was entrusted with carrying out technical assistance

Client: European Bank for Reconstruction and Development
Country: **Ukraine**
Period: 8.2009 - 1.2012
Services: Assessment of Energy Efficiency, Economic Study, Public Relation; Key Expert

Project: **Consultancy Services Regarding the Implementation of the Energy Efficiency Programme of the EBRD in the Ukraine**
The EBRD supports investments in the energy efficiency (EE) or renewable energy (RE) sector in the Ukraine. A consortium led by iC consultants was entrusted with the evaluation of approx. 25 potential EE & RE projects.

Client: European Bank for Reconstruction and Development

Country: **Ukraine**

Period: 1.2007 - 5.2009

Services: Assessment of Energy Efficiency, Economic Study, Emissions Analysis, Market Analysis, Project Coordination, Technical Consultancy; Key Expert

Project: **District Heating Leakage Control System Mayr Melnhof Plant Efimovskij / Russia**
Expertise

Department: Energy & Environment, Buildings & Structures, District Heating

Subject: District Heating

Client: Mayr Melnhof Holz Holding AG / Austria

Country: **Russia**

Period: 2010

Services: Consultancy

Project: **Biomass Cogeneration 3.0 MW Strizivojna Hrast**
Technical Due Diligence report

Department: Energy & Environment, Buildings & Structures

Subject: Biomass, Cogeneration Plant, Industrial Buildings, Infrastructure

Client: Societe General – Splitska Banka d.d. Croatia

Country: **Croatia**

Period: 2009

Services: Technical Due Diligence report for the Biomass CHP plant Strizivojna Hrast

Project: **Biomass Cogeneration 1.5 MW Zeltweg**
Expertise; Due Diligence report

Department: Energy & Environment, Buildings & Structures

Subject: Biomass, Cogeneration Plant, Industrial Buildings, Infrastructure

Client: ALLIANZ Insurance Company

Country: **Austria**

Period: 2008 -

Services: Expertise; Due Diligence report; damage of ORC cycle

Project: **Biogas Cogeneration 1 MWel Molve**
Permission engineering // Energy approval

Department: Energy & Environment, Buildings & Structures

Subject: Biogas, Cogeneration Plant, Industrial Buildings, Infrastructure, District Heating

Client: RES energetske projekti / Swietelsky

Country: **Croatia**

Period: 2008 -

Services: Consultancy, Engineering

Project: **Geothermal Plant Bad Endorf / Germany**
Technical and Economical Analyses
Department: Energy & Environment, Buildings & Structures
Subject: Geothermal Plant, Industrial Buildings, Infrastructure, District Heating
Client: Gesundheitswelt Chiemgau AG
Country: **Germany**
Period: 2008 - 2009
Services: Consultancy

Project: **CDM CO2 Azerbajdzan**
Project Management and Consultancy for the Purchase and Sale of CO2 from Hydro Electric Power Plant, ERPA negotiations until closing contract.
Department: Energy & Environment, Buildings & Structures
Subject: Small Hydro
Client: AzerEnergy
Country: **Azerbajdzan**
Period: 2008 -
Services: Technical and Commercial Consultancy, CO2-Trading

Project: **Biomass Cogeneration 7 MWel Vrbanja**
Permission engineering // Energy approval
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Cogeneration Plant, Industrial Buildings, Infrastructure, District Heating
Client: RES bioenergija Vrbanja d.o.o
Country: **Croatia**
Period: 2009-
Services: Consultancy, Engineering

Project: **Biomass Cogeneration 7 MWel Jasenovac**
Permission engineering // Energy approval
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Cogeneration Plant, Industrial Buildings, Infrastructure, District Heating
Client: RES energija projekti // RES bioenergija Jasenovac d.o.o
Country: **Croatia**
Period: 2008 -
Services: Consultancy, Engineering

Project: **Biomass Cogeneration 6 MWel Spin Valis**
Permission engineering // Energy approval
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Cogeneration Plant, Industrial Buildings, Infrastructure, District Heating
Client: RES energija projekti // Spin Valis d.d.
Country: **Croatia**
Period: 2008
Services: Consultancy, Feasibility study

Project: **Biomass Heating Plant Zams / Tirol**
Detail engineering for 5 MW Biomass Heating Plant with D.H network
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Heating Plant, Industrial Buildings, Infrastructure, District Heating
Client: Ortswärme Zams GmbH
Country: **Austria**
Period: 2008 - 2009
Services: Consultancy, Engineering, Tender Procedure, Monitoring

Project: **Biomass Cogeneration Plant St. Andrä 5 MWel**
Due Diligence
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Power Plant, Industrial Buildings
Client: Cycleenergy -3i plc Group Vienna
Country: **Austria**
Period: 2008
Services: Due Diligence Report

Project: **Biogas Cogeneration Elektrizitätswerke Reutte**
Pre-feasibility Study
Department: Energy & Environment, Buildings & Structures
Subject: Biogas, Cogeneration Plant, Biogas Cleaning
Client: EW-Reutte / Tirol
Country: **Austria**
Period: 2008 - 2009
Services: Consultancy, Engineering

Project: **PV Plant 1 MWp**
Feasibility Study
Department: Energy & Environment, Buildings & Structures
Subject: Solar, PV
Client: Eko Petroleum Ltd. Bulgaria
Country: **Bulgaria**
Period: 2008
Services: Feasibility Study

Project: **RELEEL**
Renewable Energy Legislation and Energy Efficiency Labelling
Department: Energy & Environment, Buildings & Structures
Subject: Content is the labeling of feed in tariffs for energy production from renewable sources and harmonization with corresponding EU regulations; trainingseminars and workshops in Osijek, Rijeka, Zagreb, Zadar and Sisak
Client: Ministry of Economy, Labor and Entrepreneurship; monitored by EU-Commission
European Aid 123921/D/SER/HR
Country: **Croatia**
Period: 2007 - 2009
Services: Consultancy / **Team Leader**

Project: **Biomass Pellets Production**
Feasibility Study
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Power Plant, Industrial Buildings, Infrastructure
Client: EBES AG Austria
Country: **Argentina**
Period: 2007
Services: Feasibility Report

Project: **Biomass Heating Plant Stams**
Tendering District Heating Extension for the Biomass District Heating Plant in Stams/Tirol
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Power Plant, Industrial Buildings, Infrastructure, District Heating
Client: Wärmeversorgung Stams GmbH
Country: **Austria**
Period: 2007
Services: Engineering, Tendering, Supervision

Project: **Biomass Cogeneration Göpfritz / Austria**
Detail engineering mechanical part and infrastructure, site supervision for a 5 MWel Biomass cogeneration plant in Göpfritz / Lower Austria
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Power Plant, Industrial Buildings, Infrastructure
Client: ALPINE
Country: **Austria**
Period: 2006-2007
Services: Detail engineering, supervision

Project: **Biomass Cogeneration Plant Allentsteig Lower Austria**
Due Diligence
Department: Energy & Environment, Buildings & Structures
Subject: Biomass, Power Plant, Industrial Buildings
Client: 3i plc Group, London, United Kingdom
Country: **Austria**
Period: 2007
Services: Due Diligence Report

Project: **Biogas plant Thaur-Tirol / AUSTRIA**
Pre-feasibility study for a 10.000 MT Biogas plant to produce 300kWel electricity and 350 kW thermal energy based on biological wastes
Department: Energy & Environment, Buildings & Structures
Subject: Biogas Plant, Power Plant, Industrial Buildings
Client: TIWAG (Tiroler Wasserkraft AG)
Country: **Austria**
Period: 2007
Services: Pre-feasibility Study

Project: Coal Mine Huainan / CHINA
 Project Management and Consultancy for the Purchase and Sale of 6 Mio. MT of CO2 from Coal Mine Huainan to Austrian Government thru Kommunalkredit AG.
 ERPA negotiations until closing contract.

Department: Energy & Environment, Buildings & Structures
Subject: Coal mine gas, CO2-reduction, Kyoto, Clean Development Mechanism (CDM)
Client: Coal Mine Huainan
Country: **CHINA**
Period: 2005 - 2006
Services: Technical and Commercial Consultancy, CO2-Trading

Project: Biomass Plant Uganda, Client Consulting
 Pre-Planning of a 50 MWel Biomass cogeneration plant in Uganda / AFRIKA

Department: Energy & Environment, Buildings & Structures
Subject: Buildings, Energy Supply Systems, Biomass Facilities, Industrial Buildings, Power Plant
Client: Österreichische Bundesforste AG
Country: **Austria**
Period: 2006
Services: Conceptual Design, Technical Consultancy, **Key Expert**

Project: Biomass Plant Wienstrom GmbH - Planning Services and Client Consulting
 Planning services and client consulting including submission of documents for the biomass plant to the authorities on behalf of Wienstrom GmbH. Fuel heat input approx. 62.5 MW; fluidized bed combustion with steam turbine.

Department: Energy & Environment, Buildings & Structures
Subject: Buildings, Energy Supply Systems, Biomass Facilities, District Heating System, Industrial Buildings, Power Plant
Client: Wienstrom GmbH
Country: **Austria**
Period: 2003 - 2009
Services: Conceptual Design, Technical Consultancy, Tendering assistance, **Team Leader**

Project: CHP Bärnbach
 Civil engineering of the power plant building and elaboration of the tender documents. Design of the thermal and electrical connection to the grid. Design of boiler and steam turbine. Tender procedure and erection supervision.

Department: Buildings & Structures, Energy & Environment, Mechanical & Electrical Engineering
Subject: Buildings, Energy Supply Systems, Biomass Facilities, District Heating System, Industrial Buildings, Power Plant
Client: Josef BINDER Maschinenbau- u. Handelsges.m.b.H.
Country: **Austria**
Period: 2005 - 2007
Services: Conceptual Design, Design of Control Facilities, Detail Design, Plant Design, Site Supervision Energy Systems, Tendering

Project: **Energy Efficiency Programme in Early Transition Countries (ETC)**
The EBRD supports the private industry in ETC countries in the implementation of energy efficiency measures. The aims of the project are performance of energy audits, identification of CO2 reduction potential and training.

Department: Energy & Environment

Subject: Buildings, Energy Supply Systems, Economics of Energy Supply, Energy Efficiency, Industrial Buildings, Industrial Energy Concept

Client: European Bank for Reconstruction and Development (EBRD)

Country: **Azerbaijan, Georgia, Kyrgyzstan, Tajikistan, Uzbekistan, Armenia, Moldova**

Period: 2005 - 2007

Services: Assessment of Energy Efficiency, Emissions Analysis, Energy Consultancy, Environmental Consulting, Technical Consultancy

Project: **Biogas plants Retz & Ziersdorf: Detailed design and contractual consulting**
Grüne Lagune is planning to construct 2 biogas plants in Retz and Ziersdorf with 1.5 MWel each. In this project phase the detailed design and contractual consulting are done.

Department: Buildings & Structures, Energy & Environment, Mechanical & Electrical Engineering

Subject: Buildings, Energy Supply Systems, Agricultural & Forestry Buildings, Alternative Energy Sources, Biogas Plant, Economics of Energy Supply

Client: grüne lagune BIO-EN Energy & Consulting GmbH.

Country: **Austria**

Period: 2005 - 2006

Services: Contractual Consulting, Design Check & Verification

Project: **Documentation of the Progress of Construction Works of the Biomass CHPs in Aschach and Gresten**
Study of the existing project documents and preparation of the report structure; visits on site with photo documentation and elaboration of monthly reports, final report including confirmation of the test runs

Department: Energy & Environment

Subject: Energy Supply Systems, Biomass Facilities

Client: GreenPower Projektentwicklungs GmbH

Country: **Austria**

Period: 2005 - 2006

Services: Project Management & Controlling

Project: **CHP Telfs - Pre-Feasibility Study**
Pre-Feasibility Study for the installation of a CHP fueled with biodiesel in comparison with biogas. Estimation of operating and investment costs, determination of the various fuel costs, economical efficiency.

Department: Energy & Environment, Mechanical & Electrical Engineering, Engineering & Economics

Subject: Energy Supply Systems, Alternative Energy Sources, Bio Diesel, Biogas Plant, District Heating System, Economics of Energy Supply, Power Plant

Client: Gemeindewerke Telfs Ges.m.b.H.

Country: **Austria**

Period: 2005 - 2006

Services: Alternatives Study, Economic Study, Feasibility Study

Project: ORC Breclav - Feasibility
Technical and economical investigation of various variants for the energetical use of the waste heat of gas turbine's flue gases of the gas compressor station Breclav with ORC technology.

Department: Energy & Environment
Subject: Energy Supply Systems, Alternative Energy Sources, Waste Heat
Client: Wärmebetriebe Gesellschaft m.b.H.
Country: **Austria, Czech Republic**
Period: 2005 - 2006
Services: Alternatives Study, Economic Study, Feasibility Study

Project: Biogas Retz and Ziersdorf
Preparation of tender documents - mechanical and electrical parts - for the biogas plants in Retz and Ziersdorf.

Department: Buildings & Structures, Energy & Environment, Tunneling & Geotechnics
Subject: Buildings, Energy Supply Systems, Alternative Energy Sources, Industrial Buildings, Power Plant
Client: grüne Lagune BIO-EN Energy & Consulting GmbH.
Country: **Austria**
Period: 2005
Services: Engineering Geophysics, Expert Statement, Geological Investigation, Technical Consultancy, Tender Design, Tendering, Tendering assistance, Tendering Consultancy

Project: Biomass Heating Plant Stams
Detail engineering, Tender procedure, Operation of the Plant

Department: Buildings & Structures, Energy & Environment, Tunneling & Geotechnics, Operation
Subject: Buildings, Energy Supply Systems, Alternative Energy Sources, Industrial Buildings, Power Plant, Operation
Client: Bioheizwerk Stams GmbH
Country: **Austria**
Period: 1996-1997 building phase; operator since 1997
Services: Engineering Geophysics, Expert Statement, Geological Investigation, Technical Consultancy, Tender Design, Tendering, Tendering assistance, Tendering Consultancy, Shareholder, Operator

Project: Development of Financing Mechanisms for the Energy Sector in Croatia
The overall objective of the project is to assist the development of an economically and environmentally sustainable market for renewable energy resources in Croatia.

Department: Energy & Environment
Subject: Energy Supply Systems, Alternative Energy Sources, Economics of Energy Supply, Energy Efficiency
Client: HBOR; financed and monitored by IBRD: GEF-PPG TF 051107
Country: **Croatia**
Period: 2004 - 2005
Services: Assessment of Energy Efficiency, Economic Study, Market Analysis, Market Development Strategies / **Team Leader**

Project: **Kötschach-Mautern - Technical and commercial evaluation of a biogas and biodiesel cogeneration plant before start of operation**
Kötschach-Mautern - Technical and commercial evaluation of a biogas and biodiesel cogeneration plant before start of operation

Department: Energy & Environment

Subject: Energy Supply Systems, Bio Diesel, Biomass Facilities, District Heating System, Economics of Energy Supply, Industrial Energy Concept, Power Plant

Client: AAE Biogas GmbH & Co KG

Country: **Austria**

Period: 2005

Services: Expert Statement

Project: **Project development and implementation Biodiesel**
Project development of an oil mill and a trans esterification plant in China. iC responsibility was the project management was responsible for the logistic and technical implementation.

Department: Energy & Environment, Transport & Logistics, Engineering & Economics

Subject: Energy Supply Systems, Regional Development & Climate Protection, Bio Diesel, Regional Development

Client : BIOLUX GmbH

Country: **China, Austria**

Period: 2004 – 2007

Services: Conceptual Design, Consulting, Coordination for Safety and Health Matters, Cost Evaluation & Cost Controlling, Project Coordination, Project Development, Project Management & Controlling, Public Relation, Site Supervision Energy Systems, Technical Consultancy, Tender Design, Tendering, Tendering Consultancy, Turn Key Engineering

Project: **Ramnicu Valcea PDD - CO2 Tendering Procedure/ Kommunalkredit Austria AG Regarding the Rehabilitation of the Power Plant CET Govora in Ramnicu Valcea**
Ramnicu Valcea PDD - CO2 Tendering Procedure/ Kommunalkredit Austria AG Regarding the Rehabilitation of the Power Plant CET Govora in Ramnicu Valcea

Department: Energy & Environment

Subject: Energy Supply Systems, District Heating System, Economics of Energy Supply, Energy Efficiency, Power Plant, Thermoelectric Power Plant

Client: S.C.CET Govora S.A.

Country: **Romania**

Period: 2004

Services: Economic Consulting, Energy Consultancy, Environmental Consulting, Financial Engineering, Project Development

Project: **Kamnik Biomass Co-generation Piroлиза**
The existing biomass co-generation plant (with 9.3 MW steam boiler) of the Tisa company required technical improvement. iC supports the constructor regarding the settlement of subsidy payments.

Department: Energy & Environment

Subject: Energy Supply Systems, Alternative Energy Sources, Biomass Facilities, District Heating System

Client: Tisa d.o.o

Country: Slovenia

Period: 2004

Services: Consulting, Cost Evaluation & Cost Controlling, Financial Engineering, Investment planning; **Teamleader**

Project: **District Heating from geothermal heat in Calimanesti / Romania**
Rehabilitation of the complete District Heating system

Department: Energy & Environment

Subject: Energy Supply Systems, Alternative Energy Sources, Geothermal Energy, District Heating System

Client: Calimanesti City

Country: Romania

Period: 2000-2001

Services: Consulting, Financial Engineering, Detail engineering, Investment planning, General Contractor; **Teamleader**

Project: **Friesach Biomass - Consultancy Support for the Construction of a Cogeneration Facility**
Consultancy support for the construction of a cogeneration facility based on renewable energy sources for the existing biomass power plant in Friesach/Carinthia.

Department: Energy & Environment

Subject: Energy Supply Systems, Alternative Energy Sources, Biomass Facilities, Economics of Energy Supply

Client: Bistum Gurk

Country: **Austria**

Period: 2004

Services: Energy Consultancy, Feasibility Study

Project: **Biomass District Heating Vitanje - Study**
Preparation of a feasibility study for the "Biomass District Heating Vitanje" project

Department: Energy & Environment

Subject: Energy Supply Systems, Alternative Energy Sources, Biomass Facilities, District Heating System, Economics of Energy Supply, Power Plant

Client: Elea iC

Country: **Slovenia**

Period: 2003

Services: Feasibility Study

Project: **BHKW Salzburg - Development of a Concept for the Construction of a Biomass Plant**

Development of a concept for a biomass plant on behalf of Salzburg AG. The plant with an output of approx. 12 MW_{th} and approx. 4 MW_{el} shall be located at the site of the existing heating plant North.

Department: Energy & Environment

Subject: Energy Supply Systems, Regional Development & Climate Protection, Alternative Energy Sources, Biomass Facilities, Clean Development Mechanism, District Heating System, Economics of Energy Supply, Power Plant, Waste Heat

Client: Salzburg AG

Country: **Austria**

Period: 2003

Services: Economic Study, Feasibility Study, Location Analysis & Assessment, Transport Logistics, Waste Stream Analysis

Project: **Arnoldstein - Private Expert Opinion for Tender Evaluation of KELAG Kärntner Elektrizitäts-Aktiengesellschaft**

Arnoldstein - private expert opinion for the tender evaluation of KELAG Kärntner Elektrizitäts-Aktiengesellschaft regarding the implementation and operation of the district heating network

Department: Energy & Environment

Subject: Energy Supply Systems, District Heating System, Economics of Energy Supply, Energy Contracting, Waste Heat

Client: Umwelt und Innovation Arnoldstein GmbH

Country: **Austria**

Period: 2003

Services: Expert Statement

Project: **Nursery Zeiler**

Engineering of a biodiesel fired cogeneration with 2.3 MW_{el} for covering the energy demand of the nursery Zeiler in Lower Austria; Plant Operator

Department: Energy & Environment

Subject: Energy Supply Systems, Bio Diesel, Thermoelectric Power Plant; Operator

Client: Ökoenergie Zeiler GmbH

Country: **Austria**

Period: 2003; Operator since 2003

Services: Conceptual Design, Design for Statutory Procedures, Tender Design; Operator

Project: **PIN Preparation for Coal-Fired Power Plant in Brasov/Romania**

PIN preparation for a coal-fired power plant in Brasov/Romania for Kommunalkredit Austria

Department: Energy & Environment

Subject: Energy Supply Systems, Economics of Energy Supply

Client: Siemens AG Österreich

Country: **Romania**

Period: 2003

Services: Emissions Analysis

Project: **Feasibility Study on the Implementation of a Biomass Plant with District Heating Network**
Feasibility study on the implementation of a biomass plant with district heating network
Department: Energy & Environment
Subject: Energy Supply Systems, Biomass Facilities, District Heating System
Client: Gemeindeamt Silz
Country: **Austria**
Period: 2002 - 2003
Services: Conceptual Design, Feasibility Study

Project: **Verification of Joint Implementation Projects in Romania**
The study investigated the potential for realizing Joint Implementation projects and focuses on the construction of biomass plants (partially with power input) as well as on the reduction of CH₄ emissions from geothermal sources.
Department: Energy & Environment
Subject: Energy Supply Systems, Regional Development & Climate Protection, Biomass Facilities, Joint Implementation
Client: Österreichische Kontrollbank AG
Country: **Romania**
Period: 2002 - 2003
Services: Economic Consulting, Economic Study, Emission Forecasting, Institutional Strengthening, Market Development Strategies

Project: **Technical Assistance for the fifth Framework Program of the EU**
Monitoring and Controlling of five biomass-research projects in Finland, Sweden, Italy, Germany and Austria.
Subject: Energy, Biomass, Energy Management, Alternative Energy Sources
Client: European Commission DGXII-AG
Regions: **Europe, European Union**
Period: June 2002 – December 2005
Services: Monitoring, Technical and Financial Controlling

Project: **Biomass Heating – Monastery of Klosterneuburg (33-1104)**
Enhancement of environmental conditions through the construction of a biomass heating plant with a 2.5 MW biomass boiler and of a co-generation plant with ORC process as well as of a 1.7 km long district heating network with a heat output of 11.5 GWh/a.
Department: Energy & Environment
Subject: Energy, Energy Technology, District Heating, Biomass
Client: Stift Klosterneuburg
Country: **Austria**
Period: 2001 – 2004
Services: Preliminary Design, Concept, Building Permission, Detailed Design, Tender Documents and Site Supervision of the Biomass Boiler Plant

- Project:** **Biomass Powered District Heating System Körmend (04-1107)**
Enhancement of environmental conditions through the construction of a biomass heating plant with a 5 MW biomass boiler and a district heating network connected to the existing heating plant with a heat output of 30 GWh/a of the new biomass heating plant and of the existing heating plant.
- Subject:** Energy, energy technology, district heating, biomass
Client: Municipality of Körmend
Country: **Hungary**
Period: 2001 – 2004
Services: Preliminary design, detailed design, tendering (FIDIC based), procurement, site supervision
- Project:** **Moldova Renewable Energy (Biomass) Sector Study (02x1122)**
Assessment of Moldova's potential to utilize its biomass resources as alternative energy sources in order to reduce the country's dependence on energy imports.
- Subject:** Energy, Regional Energy Concept, Biomass, Economics of Energy Supply
Client: World Bank
Country: **Moldova**
Period: 2001 - 2002
Services: Economic Consulting, Economic Viability Analysis, Market Analysis, Environmental Impact Assessment
- Project:** **Biomass Powered District Heating System in the Town of Gornji Grad (04-8138, 04x0122)**
Enhancement of environmental conditions through the construction of a 4 MW biomass fired boiler plant and a district heating system with a length of approximately 7 km and a heat output of 18 GWh/a.
- Subject:** Energy, Energy Technology, District Heating System, Biomass
Client: ENGO d.o.o. (75% Municipality of Gornji Grad, 25% sawing mill Smreka); cofinanced by EU-PHARE, Österreichische Kommunalkredit
Country: **Slovenia**
Period: 1998 - 2001
Services: Preliminary Design, Detailed Design, EU-Tendering (FIDIC-based), Procurement, Site Supervision; **Teamleader**

- Project:** **Biomass Powered District Heating System in the Town of Gornji Grad (04-8138, 04x0122)**
Enhancement of environmental conditions through the construction of a 4 MW biomass fired boiler plant and a district heating system with a length of approximately 7 km and a heat output of 18 GWh/a.
- Subject:** Energy, Energy Technology, District Heating System, Biomass
- Client:** ENGO d.o.o. (75% Municipality of Gornji Grad, 25% sawing mill Smreka); cofinanced by EU-PHARE, Österreichische Kommunalkredit
- Country:** **Slovenia**
- Period:** 1998 - 2001
- Services:** Preliminary Design, Detailed Design, EU-Tendering (FIDIC-based), Procurement, Site Supervision
-
- Project:** **Biomass Powered District Heating System in the Town of Preddvor incl. Biomass Heating Plant**
Enhancement of environmental conditions through the construction of a 2.5 MW biomass fired boiler plant and a district heating system with a length of approximately 8 km and a heat output of 9 GWh/a.
- Subject:** Energy, Energy Technology, District Heating System, Biomass
- Client:** Municipality Preddvor; cofinanced by EU-PHARE, Österreichische Kommunalkredit
- Country:** **Slovenia**
- Period:** 1998 - 2001
- Services:** Preliminary Design, Detailed Design, EU-Tendering (FIDIC-based), Procurement, Site Supervision
-
- Project:** **Biomass Powered District Heating System for the Town of Mieders (Tyrol) (04-0088)**
Enhancement of environmental conditions through the construction of a 0,6 MW biomass fired boiler plant and a district heating system with a length of approximately 1,2 km length and a heat output of 1,5 GWh/a.
- Subject:** Energy, Energy Technology, District heating System, Biomass
- Client:** Bioheizwerk Reinisch reg. Gen.mmbH
- Country:** **Austria**
- Period:** 2000
- Services:** Project Development, Preliminary Design, Detailed Design, Tendering, Engineering Consulting, Economic Consulting, Legal Consulting
-
- Project:** **Biomass Potential in Portugal (02-0064)**
Study of the export potential, the development of a fuel heat logistic as well as developing framework and project evaluation for the implementation projects based on biomass.
- Subject:** Energy, Biomass
- Client:** Bioenergie Austria (Cluster) / Austrian Federal Economic Chamber
- Country:** **Portugal**
- Period:** 2000
- Services:** Project Development, Study

- Project:** **Biomass Powered District Heating System for the Town of Bad Aussee (Styria)** (04-9101)
Enhancement of environmental conditions through the construction of a 4 MW biomass fired boiler plant and a district heating system with a length of approximately 6.2 km length and a heat output of 15.8 GWh/a.
- Subject:** Energy, Energy Technology, District heating System, Biomass
Client: Energie Comfort - Energie und Gebäude Management, GmbH
Country: **Austria**
Period: 1999 - 2000
Services: Preliminary Design, Detailed Design, Tendering, Site Supervision
- Project:** **Regional Energy Management and Rationalization Concept for the District Bruck an der Leitha (Lower Austria)** (04-8156)
Increase in demand-side energy efficiency of 20 municipalities through measures for enhancing power and heating efficiency and development of an energy data base. Management of grants for project implementation.
- Subject:** Energy, Energy Efficiency, Demand Side Management, Regional Energy Concept, District Heating System
Client: Municipality of Bruck/Leitha, Region of Lower Austria, Austrian Ministry of Economy
Country: **Austria**
Period: 1998 - 2000
Services: Project Development, Economic Viability Analysis, Market Analysis, Engineering Consulting, Detail engineering, Financial Engineering, Legal Consulting
- Project:** **Energy Concept for the Town of Bad Aussee (Styria)** (04-7107 - 7109)
Promotion of environmentally sound energy sources through an energy supply concept for a town of 5,000, focusing on a biomass powered district heating system for residential and industrial users.
- Subject:** Energy, Municipal Energy Concept, Business Energy Concept, District Heating system, Biomass
Client: Municipality of Bad Aussee
Country: **Austria**
Period: 1996 - 1999
Services: Project Development, Feasibility Study, Alternative Study, Economic Viability Analysis, Emission Projection
- Project:** **Biogas Plant Güssing (Burgenland)** (04-8110)
Construction of a biogas plant powered by glycerin, waste of the fruit juice industry, and grass. This plant provides heat to surrounding industrial facilities as well as process heat for industrial processes.
- Subject:** Energy, Business Energy Concept, District Heating System, Biogas
Client: Abwasserverband Unteres Stremtal and Ingenieurbüro Koch
Country: **Austria**
Period: 1996 - 1998
Services: Project Development, Alternative Study, Economic Viability Analysis, Emission Projection

Project: **DH system Güssing (Burgenland)**
Detail engineering and EU tender of the DH system with approx. 20 km trench length.
Subject: Energy, District Heating System, Biomass
Client: Fernwärme Güssing GmbH
Country: **Austria**
Period: 1995 - 1996
Services: Project Development, Feasibility study, detail engineering, EU tender, evaluation, monitoring

Project: **Energy Supply Concept for the Industrial Park Heiligenkreuz (Burgenland) (02-5174C)**
Energy supply concept for the international industrial park Heiligenkreuz, located at the border of Austria and Hungary, focusing on conventional as well as alternative energy sources.
Subject: Energy, Business Energy Concept
Client: WIBAG (Wirtschaftsservice Burgenland AG)
Country: **Austria**
Period: 1995 - 1996
Services: Feasibility Study, Alternative Study, Economic Viability Analysis, Emission Projection, Project Development

Project: **Power Plant Timelkam - Reconstruction of the Gas Turbine (Upper Austria) (02-411)**
Conversion of the combustion chamber of the 70 MW gas turbine (GT 13D) to a water injection in order to reduce the DENOX and to increase the output capacity.
Subject: Energy, Energy Technology, Thermoelectric Power Plant
Client: OKA
Country: **Austria**
Period: 1991 - 1992
Services: Preliminary Design, Detailed Design, Tendering, Site Supervision

Project: **Power Plant Werndorf (Styria) (02-8009)**
Enhancement of the capacity of the power plant in Werndorf through optimization of the 120 MW steam turbine.
Subject: Energy, Energy Technology, Thermoelectric Power Plant
Client: STEWEAG
Country: **Austria**
Period: 1991 - 1992
Services: Preliminary Design, Detailed Design, Tendering, Site Supervision