

Market uptake of small modular renewable district heating and cooling grids for communities

Project No: 691679



Cooperation with the industry

Country: Bosnia and Herzegovina

WP 4 – Task 4.2 / D 4.2

June 2017



Authors: Anes Kazagic, JP Elektroprivreda BiH d.d., Bosnia and Herzegovina
Christian Doczekal, Güssing Energy Technologies, Austria

Editors: Christian Doczekal, Güssing Energy Technologies, Austria


Contact: Güssing Energy Technologies GmbH
Christian Doczekal
Email: c.doczekal@get.ac.at, Tel: +43 3322 42606 331
Wiener Straße 49
7540 Güssing, Austria
www.get.ac.at




This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691679. The sole responsibility for the content of this report lies with the authors. It does not necessarily reflect the opinion of the European Union nor of the Innovation and Networks Executive Agency (INEA). Neither the INEA nor the European Commission are responsible for any use that may be made of the information contained therein.

CoolHeating website: www.coolheating.eu

Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>Alfa Invest Ltd. Sarajevo</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Producing electricity and heat from cogeneration plants on biomass. As consultant company in cooperation with our partner company VPP from Hungary (https://vpp.hu) and Pyrox technology from Italy (http://www.pyroxitalia.com/en/). We have participated in construction of cogeneration plants on biomass and natural gas.</i> | |
| <p>References:</p> <p><i>Please visit their websites.</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Equipment for industrial plants in need for electricity and heat for appliance of optimum energy efficiency.</i> | |
| <p>General description of our company:</p> <ul style="list-style-type: none"> - <i>Alfa Invest Ltd. Sarajevo is a joint venture company with 80% of foreign share and 20% owned by local owners. The registered office of the company is in UNITIC Business Center, a down-town Sarajevo office building at Fra Angela Zvizdovica 1.</i> - <i>Within its registered business activities, Alfa Invest Ltd. is extremely successfully in areas of international business consulting, investment and business liaison between companies in Bosnia and Herzegovina and the Balkans and is also expanding its business activities worldwide.</i> - <i>The company was established by pooling together capacities and potentials of a number of founders from Sweden, Ireland, Netherlands, Canada and Hungary, each of them having an extensive international businesses experience and operations on all the continents and considerable expertise, business and political credibility. Idea to establish Alfa Invest Ltd. came from the owners of a successful pre-war company ASSIST Sarajevo, which was between 1986 and 1992 believed to be a company with the best business results of all SME's in Bosnia and Herzegovina at the time.</i> | |
| <p>Contact: Alfa Invest Ltd. Sarajevo Contact person: Zdravko Acimovic, general manager Address: Fra Andjela Zvizdovica 1, 71000 Sarajevo Country: Bosnia and Herzegovina E-Mail: office@alfainvest.ba Phone: + 387 66 000760 Website: www.alfainvest.ba</p> | |

Your partner to build small district heating systems



| | |
|---|--|
| <p>Company name:</p> <p>ALFA THERM D.O.O. MOSTAR</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Heating, ventilation and air conditioning (HVAC) design - HVAC design of automated regulation and building management systems (BMS) - Installation of equipment for air conditioning and system start-up - Production of air ducts and steel part components - Service of installed equipment - Preventive maintenance - Energy efficiency projects | |
| <p>References:</p> <p>Over 5000 facilities of different purposes in Bosnia and Herzegovina and Croatia, where we have done heating, cooling, ventilation and automated regulation. Some of these facilities are:</p> <ul style="list-style-type: none"> - Small district heating facilities: „SIPA“, Sarajevo; Campus Mostar; Institution for social and health care for people with disabilities, Stolac; Heating system “Slavinovići”, Tuzla.. - Business facilities and public institutions (Mostar Unicredit bank, Mostar; Raifeisen bank, Tuzla; Croatia osiguranje, Ljubuški, The University Hospital Mostar; Faculty of Medicine Mostar; Oncology department , Mostar; Croatian Hall of Herceg Stjepan Kosača, Mostar; City hall of Mostar..) - Shopping Malls and Hotels (Mepas mall, Mostar; Importanne galerija, Zagreb; Importanne centar, Zagreb, Blngo, Mostar, Međugorje, Bijeljina, Bosanska Krupa; „SPC Rondo“ i „Orca“, Mostar; Grand Hotel NEUM; Hotel Sheraton, Dubrovnik, Hotel Neptun, Dubrovnik,...) - Hydro power plants (BMS)(HE CHE Svitava; HE Jajce I i Jajce II; HE Mostar; HE Mostarsko blato; HE Peć Mlini) | |
| <p>General fields of our activities:</p> <p>Alfa Therm d.o.o. offers a complete range of services in the field of heating, ventilation, air conditioning, technical gases, precision cooling, automation, building management systems (BMS) and other related activities for these of installations</p> | |
| <p>General description of our company:</p> <p>Alfa Therm was founded in 1987. Expansion began in 1996 and today Alfa Therm operates through two companies: Alfa Therm d.o.o. Mostar (Bosnia and Herzegovina) and Alfa Therm d.o.o. Metković (Croatia), with over 130 employees. For all types of facilities we offer a complete range of services and a lifelong maintenance to ensure the comprehensiveness of solutions - from the concept, design and execution, to the service and maintenance. Constant technical education is the foundation of successful</p> | |

business and the company invests in the organization using the software for managing and controlling processes and projects. Energy efficiency and ecology are the principles that are taken into account through all domains of the company. Our concept is a top quality customer service through optimal solutions with high quality, reasonable price and short deadlines.


Contact person: Karlo Čolak
Address: Bišće polje bb
Country: Bosnia & Herzegovina
E-Mail: alfatherm@alfatherm.com
Phone: + 387 36 312 930
Website: www.alfatherm.com



Your partner to build small district heating systems

| | |
|--|---|
| <p>Company name:</p> <p>Bioenergi d.o.o.</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Installing a heating system</i> - <i>Reliable supplier of heating energy</i> - <i>Installing pellet stoves</i> - <i>Pellet stoves service and pellet supply service</i> - <i>Stoves monitoring and reparation</i> | |
| <p>References:</p> <p><i>Our customers in 99% cases are Companies and Institutional Subject for which we providing heat energy</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Provides heating energy services, improvement of energy efficiency, pellet stoves install and pellet trading</i> - <i>We taking on ourselves all obligations and transport logistic, and providing full service of "heating per square meter"</i> | |
| <p>General description of our company:</p> <ul style="list-style-type: none"> - <i>Company is established 2008 year and primary mission in the beginning was improvement of perception for Bioenergi as the Company which is reliable supplier of heating energy, pellet supplier and pellet stoves supplier.</i> - <i>Company right now has seven employees.</i> - <i>Core business of the company Bioenergi from Vitez is heating service per square meter, installing the stoves on the bio-fuel (pellet) and pellet supply service. According to those activities we providing service of "heating per square meter" in 99% for Companies and Institutional Subject.</i> | |
| <p>Contact: <i>Bioenergi d.o.o. Vitez</i> Contact person: <i>Marko Mišković</i> Address: <i>PC-96-II, 72250 Vitez</i> Country: <i>Bosnia and Herzegovina</i> E-Mail: info@bioenergy.ba Phone: <i>030/712-316, 063/334-735</i> Website: www.bioenergy.ba</p> |  |

Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>Centre for economic, technological and environmental development – CETEOR Ltd Sarajevo</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Development of concept/design solutions of rehabilitation, expansion, modernization or construction of new district heating systems</i> - <i>Conducting feasibility studies (proposing optimal technological application)</i> - <i>Drafting Business plans</i> - <i>Calculation of GHG emission reduction</i> - <i>Environmental consultation</i> | |
| <p>References:</p> <ul style="list-style-type: none"> - <i>District heating system powered by biomass with cogeneration (CHP), in the municipality of Sokolac (2015);</i> - <i>Expansion, rehabilitation and modernization of the district heating system in municipality of Pale, Bosnia and Herzegovina, Feasibility Study (2013);</i> - <i>Reduction of specific consumption of primary energy by increasing cogeneration in TPP Kakanj by expansion of district heating system in city Kakanj, BiH - Feasibility study, Conceptual and Preliminary Design (2012)</i> | |
| <p>General fields of our activities:</p> <p><i>CETEOR is divided into five (5) business units:</i></p> <ol style="list-style-type: none"> 1. <i>Environmental department (Environmental Impact Assessment Study, Waste management plans, environmental supervision, environmental due diligence)</i> 2. <i>Energy department (carrying out energy audits in buildings and industry, feasibility studies, concept/design solutions for DHS, consultation related to RES projects)</i> 3. <i>Educational department (carrying out variety of seminars, conferences, round tables in the field of environmental protection and energy)</i> 4. <i>Laboratory (Measurement of ambient noise, emission into air, thermal imaging and other accompanying parameters) – accredited according to BAS ISO/IEC 17025</i> 5. <i>EKO CET (representation of market leaders in the field of work safety, environmental protection and measurement such as DENIOS AG, Madur, Svantek and MLU)</i> | |

General description of our company:

CETEOR was founded in 1992 and since then it has been developing its business spans towards environmental and energy related issues. Since 2006 main shareholder of CETEOR became the IPSA Institute which is one of the leading design companies in the region. Its vision is to become the leading company in the area of environmentally sustainable development in BiH and one of three leading companies in the region of South-Eastern Europe.

CETEOR has 15 permanent employees with different backgrounds (mechanical engineers, architects, economists, chemical engineers etc.) which enable a comprehensive approach in each project. In the previous period CETEOR was engaged in preparation of studies for key infrastructure projects (Highway on Corridor Vc, TPP Kakanj and Stanari, HPP Vranduk and Ustikolina etc.), participated in drafting environmental and energy related legislation, prepared studies and strategies at different administrative levels, and provided consultation for many well know companies (Shell, VW, Coca Cola etc.).

During the time CETEOR has become a recognized bridge between local communities, international organizations, investors and local authorities. This role has enabled initiating significant projects in several local communities, including DH projects (Pale, Kakanj, Sokolac etc.).

Contact: CETEOR Ltd Sarajevo

Contact person: Samra Prašović (Head of Energy Department)

Address: Topal Osman Paše 32B, 71000 Sarajevo

Country: Bosnia and Herzegovina


E-Mail: info@ceteor.ba

Phone: +387 33 563 586 or +387 33 563 580

Website: www.ceteor.ba



Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>CT – Cevna tehnika d.o.o.</p> |  |
| <p>Fields of our activities for small district heating:</p> <p>We are a supplier of pre-insulated pipe systems and a representative of Brugg Rohrsystem AG for Slovenia, Croatian and Bosnia:</p> <ul style="list-style-type: none"> - flexible PEX and stainless pre-insulated pipe systems - rigid (made of steel) pre-insulated pipe systems | |
| <p>References:</p> <p><i>Some of our biggest and most important projects and references:</i></p> <ul style="list-style-type: none"> - Terme 3000 Moravske Toplice (year 2000, Calpex and Premant pipes, approx. 1.200 m) - Dobrovnik (year 2003, Calpex and Casaflex pipes, approx. 2.400 m) - Terme Olimje Podčetrtek (year 2009, Calpex pipes, approx. 1.550 m) - Civil parish Lokovica (year 2010, Casaflex pipes, approx. 7.125 m) - Golte apartments (year 2012, Calpex pipes, approx. 630 m) - Kidričevo – Sternthal royal mansion (year 2013, Casaflex pipes, approx. 745 m) - Boilerhouse Brezje pri Dobovi (year 2014, Premant pipes, approx. 750 m) - Boilerhouse Paloma Sladki Vrh (year 2014, Premant pipes, approx. 4.530 m). <p>All other references can be seen on our web page www.cevna-tehnika.si. (http://cevna-tehnika.si/index.php/reference/references/C16)</p> | |

General fields of our activities:

- sale of pre-insulated pipe systems
- technical guidance
- pipe systems assembly

General description of our company:

CT - Cevna tehnika d.o.o., company for manufacture and sale, was established in 1992 and sells and assembles flexible hoses. As we have always strived for progress we continuously updated our product line but have nevertheless remained specialized exclusively in field of pipe & hoses goods. Our aim is to keep up to date and adjust to needs on the market, draw nearer to demands of our customers and provide all the support at choosing products.


Main advantages of our company are technically qualified staff, flexibility, fast responsiveness and quality, which is our priority. Every material used has a corresponding certificate for individual fields. In addition, the company has also acquired ISO 9001 certificate, which guarantees service in accordance with the highest quality standards.

We are proud to have established good and long-term partner relationships with renowned European manufacturers and suppliers. We have also won trust of many renowned companies in fields of chemical, pharmaceutical, food and wood industry, communal and energetic companies, merchant and installation companies and numerous individuals. Because the company is well aware that our customers' satisfaction paves the way for success we have been following this vision for years.

Contact:

Contact person: Andrej Arzenšek
 Address: Teharje 1b, 3000 Celje
 Country: Slovenia
 E-Mail: andrej.arzensek@cevna-tehnika.si
 Phone: +386 (0)3 428 50 44
 Website: www.cevna-tehnika.si

Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name: Dvokut pro ltd. Sarajevo</p> |  |
| <p>Fields of our activities for small district heating: <i>We offer services that include consulting, project design, engineering and development of project and technical documents necessary for the preparation and construction of facilities for district heating.</i></p> <ul style="list-style-type: none"> - <i>ONE STOP SHOP – From idea to use;</i> - <i>Idea, choosing location, project design, consulting regarding selection of equipment, location purchase, obtaining all permits, choice of technology, concept, main and detailed designs, construction and supervision, exploitation permit, commissioning.</i> | |
| <p>References:</p> <ol style="list-style-type: none"> 1. <i>Foundation of Esco Company for delivery of heat energy; reconstruction and commissioning of district heating plant in Livno (pipeline network connection to public buildings and residential buildings).</i> 2. <i>Reconstruction of boiler room at Olovo (delivery of heating energy to two public schools).</i> 3. <i>Delivery of thermal energy to Criminal justice institution “Igman”.</i> 4. <i>Reconstruction and commissioning of heating plant at “Slobodna zona Vogosca” and delivery of thermal energy to the company Volkswagen.</i> | |
| <p>General fields of our activities: <i>The general fields of activity of our company are:</i></p> <ul style="list-style-type: none"> - <i>Production of heat energy from biomass for heating and for production processes at industry;</i> - <i>Production of electrical energy and thermal energy from solar power plant, cogeneration plant, etc.;</i> - <i>Production of heating boilers;</i> - <i>Production of biomass;</i> - <i>Foundation of Esco Company.</i> | |
| <p>General description of our company: Dvokut pro is company founded back in 1998. with constant growth, today our team consists of 27 employees in different field of expertize. With its expertise, state-of-the-art production and installation equipment, and flexible approach to project execution, Dvokut guarantees high-quality services and products for its clients. Under a series of projects, Dvokut conducted systemic analysis with the aim of achieving optimal regional development and, based on results,</p> | |

applied multi-criteria decision analysis to facilitate development of optimal projects.

We have so far implemented a large number of projects and “turn-key” projects in the energy sector, as well as ESCO projects with the option of long-term maintenance of equipment and plants. Standing out among those are projects involving production of electrical and thermal energy (solar, cogeneration, thermal power plants).

Our work is based on a multidisciplinary approach (designing, equipment delivery, construction, commissioning and maintenance of equipment in operation), and our projects are implemented in B&H and the region.

Dvokut Team develops all kinds of project designs and organizes and coordinates acquisition of permits in the area of construction.

Contact:

Contact person: Vanja Ćurin

Address: Avde Hume 11, 71 000 Sarajevo

Country: Bosnia and Herzegovina

E-Mail: dvokut@bih.net.ba



Phone: +387 33 447 875


Website: www.dvokut.ba

Your partner to build small district heating systems


| | |
|--|---|
| <p>Company name:</p> <p>ELEKTRO TEST doo SARAJEVO</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>We can do with copper, Al-pex, plastic, inox</i> - <i>Heat pump for heating and cooling</i> - <i>Solar collectors for domestic hot water and assistance heating</i> | |
| <p>References:</p> <p><i>Our heating and cooling systems have been installed throughout the country, and they also worked in Bar (Montenegro), as well as in the municipality Struge (Macedonia).</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>development of software for monitoring</i> - <i>product electrical control cabinet</i> | |
| <p>General description of our company:</p> <p><i>Company Elektro test doo Sarajevo is establish 2002. Year. Number of employees is seven. Company engaged in the design, installation and control of electric power and mechanical systems.</i></p> | |
| <p>Contact: ELEKTRO TEST doo Contact person: Nesib Mandzic Address: Gornja Josanica I do br. 6 Country: Bosnia and Herzegovina E-Mail: nmandzic@elektro-test.ba Phone: +38761211683 Website: www.elektro-test.ba</p> |  |

Your partner to build small district heating systems

| | |
|---|--|
| <p>Company name: ENECO-ekološki sistemi</p> |  |
| <p>Fields of our activities for small district heating: ENECO-ecological systems focuses on the design, procurement of equipment and installation of complete systems that use renewable energy sources. We completely build the entire district heating system.</p> <ul style="list-style-type: none"> -Heat pumps - heat exchangers - circulating pump - heat pipes .. - and other | |
| <p>References: <i>We installed, our district heating system, which as an energy source used heat pumps that use geothermal energy in complex "ANDRIĆGRAD" in Višegrad- Bosna and Herzegovina.,and complex "DRVENGRAD-MEČAVNIK" Mokra gora-Serbia.</i></p> | |
| <p>General fields of our activities: Our activities are:</p> <ul style="list-style-type: none"> - Increasing the energy efficiency of the industrial processes. Analysis of the state and development of solutions to the industrial process to cut energy recovery, exchange of energy by heat pumps and others. Industrial processes in the dairy, juice production, food sectors and other industries. - production of automatic control, HVAC system - servicing and maintenance of HVAC systems - development projects HVAC system - works HVAC system | |
| <p>General description of our company: ENECO-ecologically systems d.o.o. is a specialized company, to create the most advanced HVAC systems heating, cooling and ventilation systems, which primarily use renewable energy sources. These sources are exploited mainly by heat pumps water-water and air-water, which, with very little energy consumption, are used for heating and cooling buildings of all sizes and purposes, in industrial process, as well as for the domestic hot water. The company was founded in 2010, and with its foreign and domestic associates successfully realized numerous projects.</p> | |
|  | |

| | |
|---|---|
| | |
| <p>Contact: <i>ENECO-ekološki sistemi</i> Contact person: Dražen Maksimović Address: Petrova gora 10, Bijeljina 76300 Country: Bosnia and Herzegovina E-Mail: eneco.bn@gmail.com Phone: +387 66 263 055 Website: www.en-eco.net</p> |  |

Your partner to build small district heating systems

| | |
|---|--|
| <p>Company name:</p> <p>Energoinvest d.d. Sarajevo</p> |  |
| <p>Fields of our activities for small district heating:</p> <p><i>Energoinvest is engineering company, executing projects on turn-key basis as EPC contractor Energoinvest's Department for thermal and process plants is mainly involved in the designing, engineering, construction and commissioning of following systems:</i></p> <ul style="list-style-type: none"> • Cooling water systems • District heating systems • Water treatment plants • HVAC systems • Gas systems <p><i>Activities which Energoinvest can offer and render in district heating Projects as EPC contractor:</i></p> <ul style="list-style-type: none"> • Preliminary studies • Consulting services • Basic, Main and As-built design (mechanical, civil, electrical and I&C) • SCADA and control program • Notification and validation of foreign/domestic designs • Engineering, procurement and construction of complete systems • Supervision of works, Commissioning, Trial run • Training of End User staff, Operation and maintenance manuals • Environmental assessment and impact studies <p><i>For project realization Energoinvest prepares following documents:</i></p> <ol style="list-style-type: none"> 1. Plan for quality, environment, safety and health management 2. Program for precaution of environment 3. Health and Safety Plan 4. Inspection and Test Plans in factories and at site | |
| <p>References in the field of district and local heating systems:</p> <ul style="list-style-type: none"> - Design documentation for new heating station in Unit 5, TPP Tuzla for city Tuzla - Heat capacity 300 MW - Reconstruction of low and high pressure heat exchangers for district heating of town Kakanj from TPP Kakanj - Heat capacity 50 MW - Development of technical and economical study for possibilities of heat supply of city Sarajevo from TPP Kakanj - Heat capacity 600MW - District heating of city Lukavac from TPP Tuzla - Heat capacity 30 MW, "turnkey" - Reconstruction of heating station in Unit 4, TPP Tuzla for city Tuzla - Heat capacity 300 MW - Rehabilitation of main gas pipeline Sarajevo Zvornik and Measuring-control gas station in Kladanj - Reconstruction of boiler and heating system in JKP Toplana Doboj - Heat capacity 30 MW - Reconstruction of boiler house for company Energoinvest IRCA, Sarajevo - A number of basic and main designs of HVAC systems for different projects (switchgear stations, industry complex, public buildings, museums, hospitals, courts,...) - Reconstruction of boiler house in Hrasno - Sarajevo- Heat capacity 30 MW | |
| <p>General fields of our activities:</p> <p><i>Energoinvest is engineering company, executing projects on turn-key basis as EPC contractor in following fields:</i></p> <ul style="list-style-type: none"> • Transmission and distribution | |

- Generation plants (TPP, HPP, WPP)
- Information and Communication technologies
- Civil Engineering and Architecture (Industrial objects, Civil structures for Electric power projects, Public buildings and objects)
- Environment protection and Water utilities

General description of our company:

Energoinvest is an export-oriented multidisciplinary engineering company established on 1951 in Sarajevo, Bosnia and Herzegovina. Energoinvest, through the 65 years in the business has developed into a leading engineering company in Bosnia and Herzegovina, which provides services in design and construction of new facilities and also reconstruction, modernization and refurbishment of complex facilities within the country and abroad. Energoinvest has 430 employees of highly professional staff like Mechanical Engineers, Civil Engineers, Architectural Engineers, Electrical Engineers, Control and Automation Engineers, Geological Engineers, Geodetic Engineers, etc with all necessary local permissions and licenses to performs any design and construction works. As company Energoinvest is certified to:

- ISO 9001:2000 for quality
- ISO 14001:2004 for environment
- BS OHSAS 18001:2007 for occupational health and safety

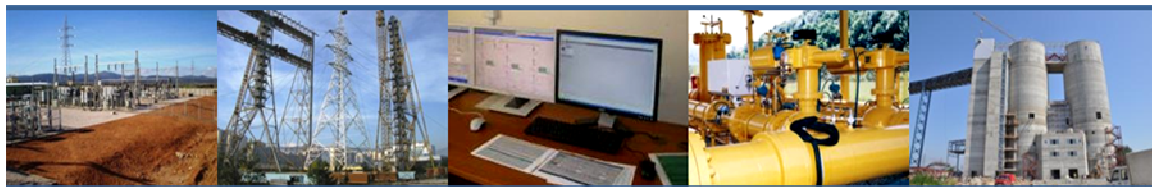
Energoinvest is recognized as a reliable partner for its business excellence and quality of services.

Our customers are mainly power and water management companies of various countries. In the realization of complex projects in the domain of its activities the company operates in cooperation and partnership with reputable international companies and manufacturers.

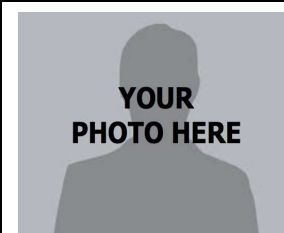
Our Clients: JP ELEKTROPRIVREDA BiH - B&H JP ELEKTROPRENOS - BIH, GRTE- SONELGAZ Algeria, TANESCOTANZANIA , MOE KURDISTAN - Iraq, ELEM - Macedonia, JP EP RS- Serbia, JP EP - Montenegro, BROWN COAL MINES "RMU Banovici" - B&H, FEDERAL STORAGE OF LIQUID FUELS - B&H, BH TELECOM - B&H, KEK – Kosovo , JKP Toplane Sarajevo,...

Our Partners: STEAG-Germany, RWE-Germany, AFC Swiss, SKODA-Czech Republic, EWB-Hungary, CLAUDIUS PETERS-Germany, FERROSTALL-Germany,...


Our Main Suppliers: SIEMENS - Germany, EFASEC - Spain, ABB – Sweden, OSI - U.S.A., WIER MINERALS - UK, ATLAS COPCO – Sweden, IBAU – Germany, ALFA LAVAL – Sweden, KSB – Germany, ERHARD – Germany, SCHNEIDER – Germany, AERZNER – Germany, KOPAR – Norway, WILO - Germany, LG - Korea, YORK- US, VIESSMANN – Germany, GRUNDFOSS – Denmark, DANFOSS – Denmark, LINDAB IMP KLIMA – Slovenia, SYSTEMAIR – Sweden, SABIANA – Italy, FLAKTWOODS – Sweden, SCHENK – Germany.



Contact: Energoinvest d.d. Sarajevo
Contact person: Ervin Ramusović
Address: Hamdije Čemerlića 2, 71000 Sarajevo
Country: Bosnia and Herzegovina
E-Mail: ervin.ramusovic@energoinvest.ba
Phone: +387 33 703 315
Website: www.energoinvest.com



Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>Enova d.o.o. - Consultants & Engineers</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>District heating design documentation (e.g. from idea to documentation of implementation)</i> - <i>Project management during project implementation</i> - <i>Project implementation supervision</i> - <i>Creation of feasibility study</i> - <i>Creation of environmental protection study</i> - <i>Creation of energy efficiency audits</i> | |
| <p>References:</p> <ul style="list-style-type: none"> - <i>Feasibility study of district heating supply for city of Sarajevo from Kakanj thermal power plant</i> - <i>City of Prijedor feasibility study of district heating</i> - <i>REELIH project - Energy efficiency audit of collective housing buildings with least four units in entire Canton of Tuzla. For following cities: Banovići, Kladanj, Gradačac and partially city of Gračanica a feasibility study was completed for district heating and implementation solution was given</i> - <i>Energy efficiency audit and certification of business complex Marijin Dvor</i> - <i>Energy efficiency certification of residential and business complex "Izvor" in Sarajevo</i> - <i>Energy efficiency study of main office of Central Bank of Bosnia and Herzegovina and energy certification of the building</i> - <i>Energy efficiency study and planning for Canton Goražde for period 2015-2020</i> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Consulting services and documentation development for energy efficiency and environmental protection</i> - <i>Building permits documentation development</i> | |
| <p>General description of our company:</p> <p><i>ENOVA, established in 2008, is a leading multi-disciplinary development consulting company in Bosnia and Herzegovina, with a staff of 35 full-time professionals. The company's staff was previously part of the Bosnia-S Consulting Department founded in Sarajevo in 1990, from which the new company emerged as a result of the growing need for consulting services in the areas of environment, energy and</i></p> | |

economic development. Enova headquarters are located in Sarajevo, Bosnia and Herzegovina. The largest portion of its business portfolio has been associated with projects supported by international development and finance institutions such as the World Bank (WB), EBRD, IFC, USAID, UNDP, UNEP, UNIDO, SIDA and the European Commission. Enova possesses excellent knowledge about the specific conditions in Bosnia and Herzegovina and the region and has already been dealing with a range of challenging environmental and development projects in the public and private domain.

Enova is recognized for its commitment to delivering the services required to meet current and evolving customer needs efficiently and effectively with a passionate and adaptive team. Our capabilities are varied yet linked – allowing us to put together teams with the necessary specialist skills in different areas that can tackle the complexity and interconnectedness of development projects. Therefore our services cover the whole range of thematic objectives of sustainable development for economic, social and policy cohesion through our 4 thematic divisions:

- *Environmental and climate change*
- *Energy and Power*
- *Economic and Social*
- *Policy and Governance*

Contact: *Enova d.o.o*

Contact person: *Zlatka Sjenar*

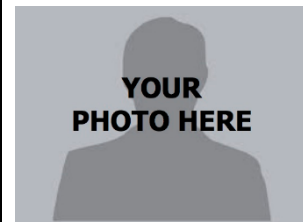
Address: *Podgaj 15*

Country: *Bosnia and Herzegovina*


E-Mail: zlatka.sjenar@enova.ba

Phone: *+387 33 251-071*

Website: enova.ba



Your partner to build small district heating systems

| | |
|--|---|
| <p>Company name: Esco eco energija d.o.o. Livno</p> |  <p>ESCO ECO ENERGIJA Proizvodnja i distribucija energije</p> |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Installed plant power of 2 MW thermal energy from biomass as a fuel;</i> - <i>Thermal energy distributed to the public and residential buildings in Livno town for heating;</i> - <i>In all buildings that are connected to the district heating system are installed vertical pipelines, measuring devices-calorimeters that are used for measuring the consumption of thermal energy for each consumer individually;</i> - <i>In progress are works on expansion of district heating plant with cogeneration facility on biomass total installed power 4 MW;</i> - <i>At district heating plant building (at roof and on external walls) are installed solar power panels with total installed power 79 kW which produce electrical energy and distribute it to the public grid and with fixed in tariff selling contract for following 10 years.</i> | |
| <p>References:</p> <p><i>Building connected to the district heating power plant: Primary school „Ivan Goran Kovačić“, kindergarten „Pčelice“, several residential buildings, sports hall „Dalibor Perković Dali“, High school for economy, National university, building of Ministry of internal affairs, Health insurance institute, etc.</i></p> | |
| <p>General fields of our activities:</p> <p><i>Company ESCO ECO ENERGIJA d.o.o. is registered for the production and distribution of energy exclusively from renewable energy sources. General fields of our activities are:</i></p> <ul style="list-style-type: none"> - <i>Production and distribution of energy, thermal and electrical,</i> - <i>Production of biomass as a fuel, etc.</i> | |
| <p>General description of our company:</p> <p><i>ESCO ECO ENERGIJA d.o.o. is founded as a public private company by Livno municipality and company Dvokut-pro in ownership 10:90.</i></p> <p><i>Company has participated in many renewables energy projects, energy efficiency project, and decrease emission impact at environment.</i></p> <p><i>ESCO ECO ENERGIJA d.o.o. is one of the founder association of biomass in B&H.</i></p> | |

For its work so far and the results achieved, the management of the company has been rewarded several times by various institutions. The company has received the most important award in the field of energy: ENERGY GLOBE NATIONAL AWARD 2013 for its achievements for the project "Energy Park Livno".

This successful project can be an example for opportunities for creation of the new values through public private partnership (PPP).

Contact:

Contact person: Borislav Kovač

Address: Stjepana II Kotromanića bb, Livno


Country: Bosnia and Herzegovina

E-Mail:

Phone: 00387 34 204 440

Website: www.energije.ba

Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>GRIZELJ Sarajevo, BiH</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Design</i> - <i>Manufacture</i> - <i>Installation</i> - <i>Maintenance of thermal power</i> - <i>Gas equipment</i> - <i>Equipment for the treatment and transport of spring</i> - <i>Industrial wastewater and municipal water</i> - <i>thermal power equipment in all district heating and cooling where resources are - energy all wastes, natural gas, LPG, fuel oil, biogas, electric boilers</i> - <i>plant for heat and cooling energy, HPV, TPV, water conditioning systems for heating and cooling, neutralization and conditioning condensate, chimneys with bearing structure</i> | |
| <p>References:</p> <p><i>Toplane Sarajevo, Toplana Banja Luka, Pivovara Tuzla, Pivovara Zadro Grude, ArcelorMittal Zenica, KJKP Sarajevogas, KJKP Pokop Sarajevom ŽiŠ Sarajevo, OŠ Musa Ćazim Ćatić Sarajevo, JU Sedma osnovna škola, MUP Goražde, Energoinvest TDS, VI osnovna škola Sarajevo, Mješovita srednja ugostiteljko – turistička škola Sarajevo, JAW Jajce, OŠ Hadžići + naselje, OŠ Mula Mustafa Bašeskija, JU Stomatološki fakultet, Privredno društvo Poljooprema, Zavod za izgradnju KS, ANUBiH, Elektrotehnički fakultet u Lukavici, Hidrogradnja d.d., Sprind d.d., JU Narodno pozorište Sarajevo, Unioninvest d.d. Sarajevo, Kraš d.d. Sarajevo, BH Telecom, Kampus univerziteta u Sarajevu, JKP 6 mart Goražde, Proming – podružnica Sarajevo, Stomatološki fakultet Sarajevo, JU V osnovna škola Sarajevo, Zbuotehnička srednja škola Sarajevo, JU Zavod za specijalno o brazovanje I odgoj djece Mjedenica, MUP BPK Goražde, JU OŠ Saburina, Općina Stari grad Sarajevo, JU Dom zdravlja KS, Fondacija za razvoj obrazovanja, JU II osnovna škola Sarajevo, Staklenik KJKP “Park” Sarajevo, IGM Visoko, TC Cenex Sarajevo, Energoinvest Tvornica dalekovodnih stubova Sarajevo, Pivovara Osijek, Vodovod Osijek, Unis auto servis Sarajevo, Autopraonica “Slon” Sarajevo, TEMOS Sarajevo, PROFIT Sarajevo</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>hot water and steam boilers,</i> - <i>expansion systems</i> - <i>hydraulic switches,</i> - <i>heating substation input: steam, hot water, hot water / hot water output,</i> - <i>HPV, TPV,</i> - <i>Split filter systems,</i> | |

- drainage manholes

New equipment, Know-how inventions:

- ETUIKI - eco turbo incineration and co-incineration,
- BioVIFIL – Bio incineration in eddy fluidized integral combustion chamber
- recuperators, utilizators, regenerators, containers for liquid and powdered fluids, equipment for using energy of wood waste ...

General description of our company:

For more than 40 years of providing quality services is a synergy of knowledge, skills, experience and successful tradition. GRIZELJ is a company that in 1998 introduced and demonstrated integrated application of EN ISO 9001 - Quality Management System and ISO 14001 - Environmental Management System, by leading certification company TUV CERT (TUV NORD), from 2012 years. and EN ISO 50001 - Energy Management System, an now and ISO 29001 - quality management system for product and service supply organizations for the petroleum, petrochemical and natural gas industries. We are a company that has acquired the right to use CE mark – 0085, sign of security products DVGW - certification institutions from Bonn. We are authorized laboratory for measuring the emission of pollutants into the air. Also an authorized laboratory measurement of pressure and temperature, and calibration of safety valves. We design and produce electrical safety - control cabinets with signal components, PLC, PID, SCADA, functions for district heating. A new program in our company the ENERGETIS^{ITG} in the our department ZIRLEC (scientific research and development laboratory educationally center) develops burners on hot air, recuperative and regenerative burners in order to use renewable energy to achieve a high degree of energy efficiency.

Contact: GRIZELJ

Contact person: Tomislav Grizelj

Address: Nikole Šopa 48

Country: Sarajevo


E-Mail: grizelj@grizelj.com

Phone: 033/ 453 321

Website: grizelj@grizelj.com



Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p>ITG d.o.o. Sarajevo</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Design - Manufacture - Installation - Maintenance of thermal power - Gas equipment - Equipment for the treatment and transport of spring - Industrial wastewater and municipal water - thermal power equipment in all district heating and cooling where resources are - energy all wastes, natural gas, LPG, fuel oil, biogas, electric boilers - plant for heat and cooling energy, HPV, TPV, water conditioning systems for heating and cooling, neutralization and conditioning condensate, chimneys with bearing structure | |
| <p>References:</p> <p><i>Toplane Sarajevo, Toplana Banja Luka, Pivovara Tuzla, Pivovara Zadro Grude, ArcelorMittal Zenica, KJKP Sarajevogas, KJKP Pokop Sarajevom ŽIŠ Sarajevo, OŠ Musa Ćazim Ćatić Sarajevo, JU Sedma osnovna škola, MUP Goražde, Energoinvest TDS, VI osnovna škola Sarajevo, Mješovita srednja ugostiteljko – turistička škola Sarajevo, JAW Jajce, OŠ Hadžići + naselje, OŠ Mula Mustafa Bašeskija, JU Stomatološki fakultet, Privredno društvo Poljooprema, Zavod za izgradnju KS, ANUBiH, Elektrotehnički fakultet u Lukavici, Hidrogradnja d.d., Sprind d.d., JU Narodno pozorište Sarajevo, Unioninvest d.d. Sarajevo, Kraš d.d. Sarajevo, BH Telecom, Kampus univerziteta u Sarajevu, JKP 6 mart Goražde, Proming – podružnica Sarajevo, Stomatološki fakultet Sarajevo, JU V osnovna škola Sarajevo, Zbuotehnička srednja škola Sarajevo, JU Zavod za specijalno o brazovanje I odgoj djece Mjedenica, MUP BPK Goražde, JU OŠ Saburina, Općina Stari grad Sarajevo, JU Dom zdravlja KS, Fondacija za razvoj obrazovanja, JU II osnovna škola Sarajevo, Staklenik KJKP “Park” Sarajevo, IGM Visoko, TC Cenex Sarajevo, Energoinvest Tvornica dalekovodnih stubova Sarajevo, Pivovara Osijek, Vodovod Osijek, Unis auto servis Sarajevo, Autopraonica “Slon” Sarajevo, TEMOS Sarajevo, PROFIT Sarajevo</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - hot water and steam boilers, - expansion systems - hydraulic switches, - heating substation input: steam, hot water, hot water / hot water output, - HPV, TPV, | |

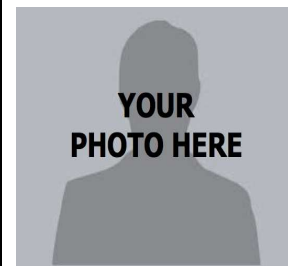
- Split filter systems,
- drainage manholes

General description of our company:

The ITG d.o.o. company Sarajevo is the only manufacturer in Bosnia and Herzegovina of heating boilers, expansion system, heat substations, split filter systems and systems for chemical treatment of water - water softeners. The ITG d.o.o. is authorized by Federal ministry of power, mining and industry for the following: manufacturing, contracting work, servicing, installation and overhaul of thermal power equipment, and inspection and adjustment of safety valve on boilers and other pressure vessels as well as issuing of declaration of quality and test reports.

Since 1998. the ITG d.o.o. company has introduced and have been applying the system of quality based on request of EN ISO 9001 and recertificated 2001 by EN ISO 9001:2000 (System of quality control) and 2008 by EN ISO 9001:2008. As the first company in Bosnia and Herzegovina, since July 1999. the ITG d.o.o. have had the right to setting the CE – sign on more than 50 of our products. Certification of company and products was done in cooperation and supervision of respectable Germany institutes for certification TÜV CERT and DVGW.

Contact: ITG d.o.o. Sarajevo
Contact person: Teo Grizelj
Address: Hifzi Bjelevca 3
Country: Sarajevo
E-Mail: itg@itgkotao.com
Phone: 033/ 468 267
Website: www.itgkotao.com



Your partner to build small district heating systems

| | |
|--|--|
| <p>Company name:</p> <p style="text-align: center;">MEB doo</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Sales and installation of materials for heating, plumbing and sanitary installations, all types of air conditioning devices - Heat Pump Systems, air-to-air, water source, and geothermal - Renewable and environmentally friendly energy sources | |
| <p>References:</p> <p><i>Our installations for heating/ cooling were installed in more towns in our country, Cazin, Velika Kladuša, Bihać, Odžak, Kakanj, Kalesija, Sarajevo, Banja Luka, Mostar, and other...</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - Geothermal energy for heating and cooling from single family homes to commercial and industrial properties - for our environment and your budget. - We enable your geothermal project - not at any price, but at a realistic price, because the geo technology makes geothermal anywhere. - We have direct contact with the manufacturers of heat pumps, from the EU and can satisfy all kinds of needs for heat pumps | |
| <p>General description of our company:</p> <p><i>The company was founding 2000. year, we have 10 to 50 of employees and more than 300 customers, we have cooperations with a lot of diferent producer from the world, we have exlusive contract with Slovenian producer of heat pumps, Kronoterm.</i></p> <div style="display: flex; justify-content: space-around;">   </div> | |



Contact person: *Mersud Beganović*
Address: *Žrtava domovinskog rata bb*
Country: *Bosnia and Hercegovina*
E-Mail: mebdoo@bih.net.ba
Phone: +387 37 513 883 ; +387 61 105 645
Website: meb-bh.com



Your partner to build small district heating systems

Company name:
Thermaflex

Please insert your company logo here



Fields of our activities for small district heating:

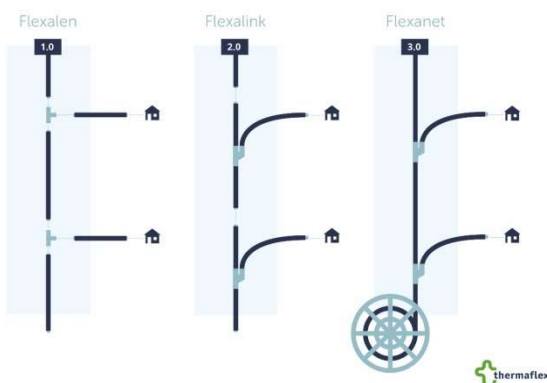
Thermaflex is the manufacturer of Flexalen pre-insulated pipes – diameter range d16-d225. The medium pipe is made out of Polybutylene, which is known for its flexibility and durability. Insulation and outer casing are made of PE. We strive for cost efficiency, fast installation and durability.



We supply in 3 levels of prefabrication.

1. Separate pipes, joints and insulation kits.
2. Elongated flexible T-pieces, which form a network when connected.
3. Complete prefabricated network that can be rolled out in place.

Rolling out tomorrow's thermal networks



References:

Flexalen pre-insulated pipes are in use all over Europe as well as in very demanding environments like Caribbean islands and Antarctic snow. Our solutions can for example be found in:

- Energie Steiermark, Austria
- Heiligenkreuz, Austria
- Otopeni, Romania
- Lucenec, Slovakia
- Novo Mesto, Slovenia
- Purmerend, The Netherlands-
- La Capelle Marival, France
- Lyngdal, Norway
- Wörgl, Austria
- Maldives
- Cancun, Mexico
- Rotorua, New Zealand

General fields of our activities:

Aside pre-insulated pipes for district heating/cooling and other thermal energy projects, Thermaflex has built a solid reputation in Technical Insulation products. We manufacture truly sustainable and extremely durable insulation, awarded the number one quality/suitability certificate: Cradle to Cradle.



General description of our group:

Thermaflex is a privately owned company, where taking care of future generations has been in our very nature since 1976. We are active in 45 countries and operate 5 production plants in Europe, Middle East, Russia and Thailand.

Contact: *Thermaflex-Flexalen*
 Contact person: Artur Klos
 Address: Vienna
 Country: Austria
 E-Mail: a.klos@thermaflex.com
 Phone: +43 676 523 7714
 Website: www.thermaflex.com



Your partner to build small district heating systems

| | |
|---|---|
| <p>Company name:</p> <p>TERMOLUX D.O.O. Banja Luka</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Heat exchanger units (ready to use heating stations for small and large buildings) - District heating pipes (steel, plastic, with insulation) - Control units (remote control) | |
| <p>References:</p> <p>We have installed our control units in almost every major city in Bosnia, like Banja Luka, Sarajevo, Mostar, Tuzla, Zenica, Bijeljina.</p> <p>Some of the references are:</p> <p>http://www.nibe.ba/References/</p> | |
| <p>General fields of our activities:</p> <p>We provide:</p> <ul style="list-style-type: none"> - heating by heat pumps - cooling by heat pumps - heating domestic water by heat pumps <p>Type of heat pumps are:</p> <ul style="list-style-type: none"> - ground sources heat pumps - air/water heat pumps - exhaust air heat pumps | |
| <p>General description of our company:</p> <p><i>NIBE Energy Systems is the largest manufacturer of domestic heating products in the Nordic countries and a market leader in Northern Europe in the electric water heater and heat pump segments. The mission is to supply homes and buildings with products that provide domestic hot water and ensure a comfortable indoor climate. Our company in Banja Luka has two employees in the office, however we have our own installers in every major city in Bosnia who do projects for us. We have been active for 6 years now and have a lots of very satisfied customers.</i></p> | |
| <p>Contact: Termolux d.o.o. Contact person: Samir Semiz / Adis Hafizovic Address: Bul. Vojvode Stepe Stepanovic 175a Banja Luka Country: Bosnia and Herzegovina E-Mail: nibe@termolux.ba / info@termolux.ba Phone: + 387 65 244 246 / +387 66 700 896 Website: www.nibe.ba / www.nibe.eu / www.termolux.ba</p> |  |

Your partner to build small district heating systems


| | |
|---|--|
| <p>Company name:</p> <p>ThermoFLUX d.o.o.</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>Producing biomass (pellets and woodchip) hot water boilers</i> | |
| <p>References:</p> <p><i>Our pellet boilers were installed in many of kindergartens, schools, hospitals, industrial and residential objects and buildings.</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Producing pellet boilers</i> - <i>Producing pellet stoves</i> - <i>Producing woodchip boilers</i> | |
| <p>General description of our company:</p> <ul style="list-style-type: none"> - <i>The company was founded in the year of 2007. We began manufacturing pellet boilers and automatic pea coal fired boilers. Since 2007, the company has continually developed, investing in the latest equipment and tools, and consequently increased the number of employees. The company currently employs about 130 professionally trained workers</i> - <i>Our staff have adopted the highest standards with assistance from specialist European institutes and we have now grown into a well respected, international company . Production facilities are spread over a 8000 m2 covered area, built to the highest standards. ThermoFLUX is the biggest manufacturer of biomass boilers in Bosnia and Herzegovina. Almost half of our production is exported and our products are very competitive on the international market. Currently we are exporting to Austria, Slovenia, Germany, Belgium, Denmark, Croatia, Macedonia, Serbia, Kosovo, Portugal, Italy and Spain with a commitment for further expansion.</i> | |
|  | |



Contact: *ThermoFLUX d.o.o.*
Contact person: Katarina Ladan
Address: Bage 3, 70101 Jajce
Country: Bosnia and Herzegovina
E-Mail: katarina.ladan@thermoflux.ba
Phone: +387 30 657 103
Website: www.thermoflux.ba



Your partner to build small district heating systems

| | |
|--|--|
| Company name: UNIONINVEST dd Sarajevo |  |
| Fields of our activities for small district heating: - Design and installation of complete district heating systems including pipes, heat exchanger units, heating substations, boiler rooms etc. | |
| References: <ul style="list-style-type: none"> <p>• Design and Built project “Mitrovica” District Heating System in Mitrovica; Total value EUR 2.015.904; Client:EEA Reconstruction and rehabilitation of the Mitrovica District Heating system. The project included the general architectural reconstruction of the existing boiler house with installation of new equipment (three boilers with total heating capacity of 38,7 MW), supply and installation of the hot water pipelines (pre insulated pipes directly buried in the ground) in total length of 8000 m and supply and installation of 60 thermal substations. The system is executed as no manned fully automatic system-SCADA operated</p> <p>• Design and Built project “Sunny Hill “ District Heating System in Pristina;Total Value EUR 1.976.818; Client: EAR/KTA <i>Lot 1 Design and construction of thermal substation capacity of 44 MWt (4x11MW) for hydraulic separation of the district heating system of Prishtina and for purposes of heating Sunny Hill city/village</i> <i>Lot 2 Design and Construction - Expansion of the existing hot water network (120/70o C), with pre-insulated pipeline for direct land installation, 1500 m length of the route.</i></p> <p>• The main project of the hot water network with Substations – Živinice town;Total value: EUR 68.216,05; Client: Živinice Municipality <i>The main project of the hot water network with Substations – Živinice town including</i> <ul style="list-style-type: none"> – <i>Mechanical and technological design, Electrical design, Measurement and control design and Architectural and construction design</i> <i>Thermal power plant "Tuzla" provides thermal heating energy for the city of Tuzla, Lukavac and Živinice.</i> <i>District heating for Živinice:</i> <ul style="list-style-type: none"> - <i>initial thermal load of the system in 2003 - 25 MWt for the city Živinice</i> - <i>extreme thermal load system 2022.godine - 60 MWt for the city Živinice.</i> <i>The project provide an additional 10 MWt for settlements and Husino and Ljubače.</i> <i>District heating period: 4560 h /year</i></p> <p>• RECONSTRUCTION WORKS ON HEAT SUBSTATIONS, GENERAL HOSPITAL «Prim.dr. Abdulah Nakaš», Sarajevo,B&H;Total value EUR 397.078,45;Client: Public Institution General Hospital «Prim.dr. Abdulah Nakaš», Sarajevo <i>Within complete reconstruction of the steam heat substations in the General Hospital "Prim. Dr. Abdulah Nakas" Sarajevo, all elements of the old substation have been dismantled and have been built compact steam "Danfoss" substations made of modules, which after the connection, constitute a single entity.</i> <i>Five reconstructed steam substations have capacity to fully meet the needs for heating, hot water consumables and thermal disinfection of water:</i> <ul style="list-style-type: none"> <i>P 23 – O I capacity 1,100 kW</i> <i>P 23 - O II capacity 550 kW</i> <i>P 25 – O I capacity 1,500 kW</i> <i>P 301 – O I capacity 500 kW</i> <i>P1203 – O I capacity 1,200 kW</i> <i>Working of the embedded substation is fully remote monitored and enables monitoring and management from a single location.</i> <i>The connection of quality components, rational composed , correctly embedded and connected in a compact system provided conditions that are necessary for operation of these types of facilities.</i></p> | |

- **Rehabilitation and reconstruction of the central boiler room for the Building of friendship between Greece and Bosnia and Herzegovina; Total value: EUR 441.030; Client: Ministry of Finance and Treasury B&H**

Within the project were dismantled two of the four existing boilers.

The other two existing boilers which operate with extra light oil EL (type Viessmann 2.500 Mcal / h and Viessmann 3.000mcal / h) were repaired and put into proper condition, also repaired and reconstructed all mechanical installations, including the reconstruction of the ventilation system. Two new boilers (low pressure steam boiler p = 0.5 bar , with Q = 5 t / h , the power of 3.300 kW) combined with new burners for operation with natural gas / extra light oil were built.

As an additional security measure, in the boiler room has been installed a new system for gas detection in Ex version, as well as the connecting the new fire alarm system with the existing one.

General fields of our activities:

- Development of real-estate projects for households and business dwellings, hotels and industrial facilities;
- Project design (hydro, electrical and air cooling or heating project);
- Construction works at site
 - hydro installation,
 - electrical installation and
 - mechanical installation; air cooling or heating projects;
- Supervision in construction projects;
- Engineering and complex engineering ;
- Infrastructure projects
 - water and waste water projects;
 - public lighting
 - district heating


General description of our company:

- Type of the Company : Stock company
- Company description: Stock company specialized for engineering, mounting, designing and technical consulting
- Origin of the company: Bosnia & Herzegovina
- Experience
 - In B&H 66
 - international 40
- Ownership: 100% private ownership
- Since 1949 we are designing, constructing, mounting, and maintaining industrial, administrative, sport, health, education, and power facilities;
Today Unioninvest d.d. Sarajevo represents a leader in engineering projects in local markets and recognizable brand in region.
Company employs 74 staff, among them 19 employees with university degree;
Our mission is to adequately respond to projects of:
 - Construction of turnkey projects of households, and business dwellings;
 - Water treatment, establishment of systems of rational energy consumption;
 - Air cooling or heating;
 - Application of automatic and centralized monitoring and control of these media and installed plants.

Contact:

Contact person: Sanja Saf, head of the technical commercial sector
 Address: Grbavička 4, 71000 Sarajevo
 Country: Bosnia and Herzegovina
 E-Mail: sanja.saf@unioninvest.net; info@unioninvest.net
 Phone: +387 33 567 431; +387 33 567 422
 Phone - fax: +387 33 208 506
 Website: www.unioninvest.net

Your partner to build small district heating systems

| | |
|---|--|
| <p>Company name:</p> <p>Vatrostalac d.o.o. Tuzla</p> |  |
| <p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>construction, repairing and maintenance</i> - <i>design of industrial chimneys,</i> - <i>construction of industrial, chimneys</i> - <i>repairing and maintenance of industrial facilities, working on high</i> | |
| <p>References:</p> <p><i>Twenty years working on design, construction and maintenance of industrial facilities.</i></p> <p><i>Our references:</i></p> <ul style="list-style-type: none"> - <i>Design four steel chimneys for City heating company "Toplane" Sarajevo (32-64m high)</i> - <i>Construction of three steel chimneys for heating company "Toplane" Sarajevo (32-64m high)</i> - <i>Design and construction new concrete chimney High 31m for General hospital "Prim.dr. Abdulah Nakaš" Sarajevo</i> - <i>Design, delivery and installation of three multi-layer chimney made of acid-resistant stainless steel with inside diameter 800mm h=78m for "JKT Toplota Uzice i MPP Jedinstvo Uzice", Serbia</i> <p><i>Our control units for heating stations were installed in 5 towns in our country...</i></p> | |
| <p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>diamond drilling</i> - <i>Structural reinforcement of concrete and steel constructions</i> - <i>anchoring and injection</i> - <i>hydrodynamic cleaning</i> - <i>testing of structures</i> - <i>Equipment for working on high</i> | |
| <p>General description of our company:</p> <p><i>Vatrostalac d.o.o. is company specialized in design, construction, repairing and maintenance of industrial facilities , chimney, cooling towers, silos, towers, thermal facilities and works on heights.</i></p> | |


Since the establishment (1996) Vatrostalac was involved in many activities, from operations on existing capital power facilities to design and build completely new objects in Bosnia and Herzegovina, Croatia, Serbia and Macedonia.

We now have 18 employer, specialized for special type of works.

Contact person: *Elmir Hajdarbegović*
Address: *Bosne Srebrene bb (SKPC Mejdani), Tuzla*
Country: *Bosnia and Herzegovina*
E-Mail: vatrostalac@bih.net.ba
Phone: *+387 35 369 000*
Website: www.vatrostalac.com



Vaš partner za izgradnju malih centraliziranih toplinskih sustava

| | |
|--|--|
| <p>Imetvrtke:</p> <p>Vodoskok d.d.</p> |  |
| <p>Naše aktivnosti vezane uz centralizirane toplinske sustave:</p> <ul style="list-style-type: none"> - implementacija modernih tehničkih rješenja za povećanje energetske učinkovitosti u toplinskim mrežama – sustav predizoliranih plastičnih polibutenskih (PB) cijevi Thermaflex Flexalen (optimizacija toplinskih i hidrauličkih gubitaka, rješavanje problema uzrokovanih korozijom i inkrustacijom, minimiziranje troškova priključivanja potrošača, ubrzanje izgradnje cjevovoda) - tehnička podrška pri planiranju i projektiranju energetski održivih sustava (naglasak na zaštitu okoliša, smanjenje emisije stakleničkih plinova, korištenje alternativnih izvora energije – biomasa, bioplin, geotermalna voda, solar) - tehnička podrška pri montaži sustava (aparati za zavarivanje, alati) | |
| <p>Reference:</p> <p><i>Toplovodni cijevni sustavi Thermaflex Flexalen su u posljednjih 20 godina instalirani u brojnim projektima izvedenim u cijelom svijetu. Navodimo razvode iz kotlovnica, razvode geotermalne vode, toplinske mreže na postrojenjima s bioplinom i biomasom, sekundarne distributivne cjevovode od toplinskih stanica, razvode u sustavima s toplinskim pumpama).</i></p> <p><i>Dodatno možemo navesti projekte s predizoliranim cijevnim podzemnim sustavima za distribuciju rashladne vode u hotelsko-apartmanskim objektima i kampovima u priobalnim područjima te projekte za distribuciju vruće sanitarne vode.</i></p> | |
| <p>Općenita područja našeg djelovanja:</p> <ul style="list-style-type: none"> - proizvodnja tlačnih PEHD cijevi za distribuciju vode i plina - proizvodnja PP cijevi i okana za gravitacijsku odvodnju - prodaja kompletnih cijevnih sustava za niskogradnju i visokogradnju - savjetovanje i inovativna tehnička rješenja za održivi razvoj i izgradnju | |

Općeniti opisna šetvrtke:

vodoskok



www.vodoskok.hr



Prodajni program 2016



Vodimo brigu o okolišu i pitkoj vodi!

Vodoskok d.d. je tvrtka osnovana u 2003. godine. Trenutno su u sastavu Vodoskok grupacije Hoplast-pipe Prelog, Vodoskok d.o.o. Tomislavgrad BiH i Vodoskok Skopje Makedonija sa sveukupno 180 zaposlenika. Uz sustave iz vlastite proizvodnje Vodoskok d.d. distribuira vrhunske proizvode etabliranih svjetskih (Thermaflex, Simona, Plastitalia, Ostendorf plastics, Electrosteel, F.I.V.) i hrvatskih proizvođača (MIV).

Kontakt: *Vodoskok d.o.o.*
 Kontaktosoba: Predrag Čović, dipl.ing.stroj.
 Adresa: Novi kolodvor bb, 80240 Tomislavgrad
 Država: Bosna i Hercegovina
 E-Mail: predrag.covic@vodoskok.com
 Telefon: +38734353 505
 Webstranica: www.vodoskok.hr

