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

Project No: 691679



### **Cooperation with the industry**

### Country: Serbia

WP 4 – Task 4.2 / D 4.2

June 2017



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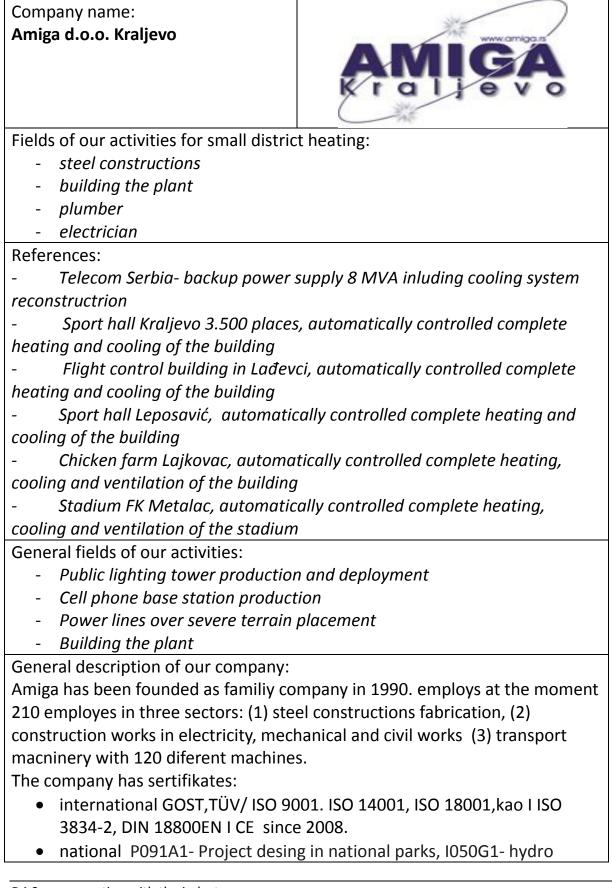


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CoolHeating website: www.coolheating.eu











power plants 10 MW and more, - I051G1- hydro power plants 10 MW and more with dams, I061E1- power lines 110 kW and more ; I062E1power substations 110 kW and more; I111E3- telecomunication systems at airports; I141E1- railway supply network construction; I120G1 – ports and docks; I2031G1- facilities 50m and above

Contact:

Contact person: Aleksandar Tošković Address: Bokeljska 7, Beograd Country: Serbia E-Mail: a.toskovic@amiga.rs Phone: +381648636001 Website: www.amiga.rs





Company name: "EKOTERM" DOO		
	/ EKO	TERM
	Kuća pravil	h vrednosti
	πασά ριανί	T VICUII031
Fields of our activities for small distric	t heating:	
- pipes		
- heat exchanger		
- gas peak load boilers		
- biomass boiler		
- various heating/cooling equipment	t	
References:		
- more than 5 substations for house	holds and business	
- repair of the community heating piping system (DN125-150m)		- 150m)
- 5 heat pumps water-water		
- 2 heat pumps water-air		
- solar heating system for pupils dormitory		
- more than 5 sanitary hot water on solar and other sources		
- 2 solar panel equipped boats	- 2 solar panel equipped boats	
- more than 5 gas and electric buildi	ing heating systems	
- more than 25 pellet heating system	ns	
- more than 1,000 household gas, el	- more than 1,000 household gas, electricity and fossil fuel heating systems	
- more than 100 household and services heating/cooling systems designed.		
General fields of our activities:		
- heat pumps		
- solar thermal systems		
- natural and liquefied gas systems		
- fossil peak load boilers		
- small combined heat and power plants		
- climatization, ventilation		
General description of our company:	_	_
The company has been founded in 20	03 in Sremska Mitrov	vica currently
employs 17 employees.		[
Contact:		
Contact person: Miroslav Mićić		





Address: Branka Ćopića 38, Sremska Mitrovica Country: Serbia E-Mail: ekoterm.ing@mts.rs Phone: 022/631-041 Website: www.ekoterm.co.rs





Euro Heat DOOCuro heatFields of our activities for small district heating: 	
References: District heating systems: Belgrade, Kragujevac, Užice, Niš, Lazarevac, Pancevo, Negotin, Sombor, Banja Luka	
References: District heating systems: Belgrade, Kragujevac, Užice, Niš, Lazarevac, Pancevo, Negotin, Sombor, Banja Luka	
General fields of our activities: - heating and cooling systems - petrohemical industry - pharmaceutical industry - oil and gas industry - food industry - districts systems	
General description of our company: EURO HEAT is in business of manufacturing plate heat exchangers since 1995. Continued investment in improvement of product quality, training of our employees, professionalism in dealing with our customers has led to the enlargement of product range. The quality and dedication to work was recognized by the European Bank for Development, which funded the development of our products. Today, EURO HEAT in addition to its core business of manufacturing of plate heat exchanger produces and heating substations, individual measurement and regulation sets and heat meters. Production takes place in modern production facility of 1500 m2. Has 20 employees whose further education is considered as very important resource of company. Exporting our products has been growing from year to year, and currently 45% of our production is exported to countries of European Union, Russia,	





Belarus, and countries of former Yugoslavia.	
Standard:	
ISO 9001, ISO 14001, ISO 18001, GOST-R, CE- PED 97-23/EC	
Contact: Euro Heat Doo	
Contact person: Stevan Petković	
Address: Industrijska bb, Kragujevac	
Country: Srbija	
E-Mail: office@euroheat.co.rs	
Phone: +38134345055	
Website: www.euroheat.co.rs	



Company name: "Grijanjeinvest" doo Pale GRIJANJEINVEST d.o.o.	
Fields of our activities for small district heating:	
Design, construction, supervision	
References:	
1. Study about district heating Pale	
2. Supervision of the construction of a new biomass heating plant in Prijedor	
3. Air conditioning of the shopping center "Bartula" Pale	
4. Air conditioning of the main hall, and reconstruction of gas boiler room of the	
Central Bank of Bosnia and Herzegovina, Sarajevo	
5. Air conditioning of the shopping center "Tuš", East Sarajevo	
<ol> <li>Air conditioning of the large amphitheater of the Faculty of Economics in Banja Luka</li> </ol>	
7. Heating and ventilation in primary school "Serbia" in Pale	
8. Adaptation of the boiler room in the General Hospital of Zvornik	
9. Underfloor heating in the Orthodox Cathedral Church in Sarajevo	
10. Air conditioning and heating in building of Faculty of Economics Pale	
11. Air conditioning of the sports hall "Peki" in Pale	
12. Ventilation of restaurants and kitchens of Forensic Psychiatry Institute Sokolac	
13. Air conditioning in building of municipality of Bileća	
14. Air conditioning of the City Hall in Novi Grad	
15.HVAC installations of the Regulatory Commission for Energy of the	
Republic of Srpska in Trebinje	
16. Air conditioning of the Center for IVF in Valjevo	
17.HVAC installations in the construction adhesives factory "Henkel", Bileća 18.HVAC installations of the hotel "Nar", Trebinje	
19.HVAC installations of the hoter Nar, fredhije	
Herzegovina in Doboj	
20. HVAC installations in the building for representatives of the Republic of Srpska in	
institutions of Bosnia and Herzegovina, East Sarajevo	
21. HVAC installations in office of "Microsoft", Sarajevo	
22. HVAC installations in the amusement park "Sunnyland" Trebević, Sarajevo	
General fields of our activities:	
The main activity is design and construction of HVAC installations: air-	
conditioning, heating and refrigeration.	

General description of our company:

The Company "Grijanjeinvest" was founded in Sarajevo in 1991. It was reestablished in 1995 in Pale and since than has been steadily growing and nowdays employs over 30 people. The main activity is design and construction of HVAC installations: air-conditioning, heating and refrigeration. The "Grijanjeinvest" has a permanent and extraordinary cooperation with the Department of Thermal Engineering, Faculty of Mechanical Engineering University of Belgrade. Since mid-2014 "Grijanjeinvest" in Serbia founded company "TTA PROJEKT" currently employs 5 graduated engineers in the field of HVAC. In the last 20years we have worked devotedly on improving living standards applying modern, energy-efficient achievements in this fiel

Contact:

Contact person: Ljubiša Tanić Address: Srpskih ratnika 24, 71420 Pale Country: Bosnia and Herzegovina E-Mail: office@grijanjeinvest.com Phone: 00 387 57 200 410 Website: <u>www.grijanjeinvest.com</u>





Company name: HIDROTERMA DOO



Fields of our activities for small district heating:

- construction of heating systems
- planner of heating plants and district heating grids

#### References:

Heating installation :

- Households in Serbia
- Business up to 10.000m2 more than 10 cities

General fields of our activities:

- construction of heating systems
- planner of heating plants and district heating grids

General description of our company:

**HIDROTERMA D.O.O.** is a company for design, building and engineering of heating systems and machines, water and sewerage systems located in Sremska Mitrovica, near Ruma and Sabac, founded in 1990. It employs an experienced mechanical engineer with licenses and 8 technicians, and other non technical staff. It poses three vehicles and all needed tools for heating, gasification, climatisation, ventilation, mechanical constructions, water system, sewerage system and more.



Contact:

Contact person: Aleksandar Perović dipl.maš.ing Address: Marka Aurelija BB Sremska Mitrovica Country: Serbia E-Mail: aca@hidroterma.com Phone: +38163350929 Website: www.hidroterma.com







Company name: A.D. IZOLIR Predizolovane cevi i cevna tehnika

#### Fields of our activities for small district heating:

Fluid transport pipelines (transports of hot water, transports of heat, oil transports...); installed in channels, with thermal insulation of polyurethane rigid foam and PE cover pipe, or combination of mineral or glassy wool and rigid PU foam and PE cover pipe. Pipes produced in previously explained way could be covered by concrete plates in concrete channels or covered by send and narrow material of surrounding soil. We produce pipes in length of 6 or 12m, all fittings (elbows, tees, valves, reducers and so on) for pipeline and muffs for insulation field welded connections of the steel pipes.

Hydro pre-insulated steel pipe for transport of the natural gas, crude oil, heating oil or water in length of 6 or 12m. The system of this kind of hydro insulation is well known as 3LPE - Three Layers of Polyethylene. This system is much better than classic system of hydro insulation using the PE tapes directly at the site, saves the time and money too. All pipes are tested during production to the electric resistant (Holliday testing). The thickness of the PE is min. 1,8mm and more depends of the steel pipe diameter.

PE gas and water pipes OD110 up to 280mm, SDR11 and SDR17 in length of 6 up to 12m.

Steel pipe supports produced of rigid PU foam and protected with HDPE outside. Steel pipe diameters from 21,3 up to 273mm. The length of the pipe supports could be from 50mm up to 1m.

#### References:

In 2008. year, Program: "The reconstruction of the local district heating system in Serbia - Phase III", cofunded by the Federal Republic of Germany, the German KfW and financial institutions of the Republic of Serbia for which implementation was responsible the Ministry of Mining and Energy of the Republic of Serbia.

With the program were included:

- "Energetika"DOO, Kragujevac, pipeline with diameter from Ø 33,7 to Ø 273,0
- JKP "Toplana"Kraljevo, pipeline with diameter from Ø33,7 to Ø 273,0
- DP "Grejanje"Zrenjanin, pipeline with diameter from Ø 42,4 to Ø 406,4
- JKP "Energana" Sombor, pipeline with diameter from Ø 33,7 to Ø 355,6
- JKP "Gradska Toplana"Pirot, pipeline with diameter from Ø 33,7 to Ø 168,3

Other district heating systems are equipped by Izolir pre insulated pipes and pipe elements are:

Bor, Požarevac, Sremska Mitrovica, Smederevo, Bečej, Lazarevac, Subotica, Čačak, Kraljevo, Beograd, Bačka Palanka, Valjevo, Gornji Milanovac, Kikinda, Kovin, Kragujevac, Loznica, Majdanpek, Niš, Novi Sad, Novi Kneževac, Paraćin, Podgorica, Priština, Sombor, Soko Banja, Šid, Kruševac, Zaječar, Vranje, Novi Pazar, Nova Varoš, Pirot, Banja Luka...

General fields of our activities:



Thermoinsulation - IZOPEN - pre insulation of steel pipes and pipe elements with polyurethane for transportation of hot and cold fluids. With this technology is mostly use to perform: heating pipelines, pipelines, oil pipelines, industrial installations for transport of fluids, home installation, gas stations, ...

Hydroinsulation - IZOPOL - pre insulation of the steel pipes with polyethylene, for transportation of gas, water, oil and other fluids where is not required the preservation of the thermal properties of the flowed fluid.

Product - range IZOPEN

- *x* pre-insulated pipes IZOPEN PC130
- *x* pre-insulated pipes IZOPEN PC200
- *x* pre-insulated piping elbow IZOPEN PCL
- **x** pre-insulated fixed point IZOPEN PFT
- **x** pre-insulated spur-line IZOPEN PEO
- *x* pre-insulated reduction parts IZOPEN PRK
- **x** pass through wall IZOPEN PKZ
- **x** polyethylene or thermo shrinkable joints IZOPEN PSE
- **x** pre-insulated packaged valve

pre-insulated dilation parts IZOPEN PDL ( customer demand)

#### General description of our company:

The development path of AD "IZOLIR" begins on April 17, 1984 year, when Mr. Miroslav Matic with his 7 closest associates founded the Contracting organization of associated labor.

Today the company operates under the name "IZOLIR" as a joint stock company and it is privately owned. The company A.D. "IZOLIR" is run by Mr. Miroslav Matic all these 35 years, and he still successfully running a company. AD "IZOLIR" currently employs 80 workers in permanent employment.

AD "IZOLIR" operates at two separate locations with a total business and production space of 11,000 m<sup>2</sup> and warehouse space of 30,000 m<sup>2</sup>.

AD "IZOLIR" is the first domestic factory and leader in the field of pre-insulated pipes for district heating and following equipment, as well as in manufacturing pre-insulated pipes for high pressure gas pipelines. Our strategy and our advantages are always new products, where our team of experts for the past 25 years works on conquest of new technologies, improvement of old and improvement of the quality of existing programs when it comes to technology for insulation with polyurethane and polyethylene.

#### Contact:

Contact person: Marijana Matić Mićić Address: Novosadski put bb, 23000 Zrenjanin Country: Serbia E-Mail: marijana@izolir.rs Phone: + 381 63 516 627 Website: www.izolir.rs



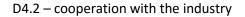


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Company name: KOVAN M.I.



Fields of our activities for small district heating:

- biomass boiler production for household, industry and district heating
- solar thermal collectors

**References:** 

- more than 8,000 boilers in household and industry sector in Bosnia and Herzegovina, region and world.

General fields of our activities:

- pellet production machinery
- anticorrosion protection
- laser thin metal cut



General description of our company:

The company has been founded in 1996 in Gracanica, currently employs 150 employees with yearly growth of 30% and implements ISO9001:2008 standard. Our products are exported to: Slovenia, Austria, Nederland, Poland, France, Luxembourg, Belgium, Norway, Ukraine, Russia and in the region: Serbia, Croatia and Montenegro.





Contact: Contact person: Lena Bratic Address: Bulevar kralja Aleksandra 548, Beograd Country: Serbia/Bosnia and Herzegovina E-Mail: office@kovan.rs Phone: +38163481222 Website: www.kovan.ba







Company name: Društvo za preradu obnovljivih izovra energije Bio energy Point doo	BIOENERGYPOINT	
Fields of our activities for small district heating: - wood chipper		
References: Electricity and heat plants, paper industry, pharmacy stores: -BEOGRADSKE ELEKTRANE -TOPLANA UZICE -ARABESA -APOTEKARSKA USTANOVA ZAJECAR -TITAN CEMENTARA -PREDSKOLSKE USTANOVE General fields of our activities:		
-pellet production up to 65,000t/year General description of our company: -wood chipper		
Contact:BIO ENERGY POINT DOO Contact person: Mladen Stojadinovic, Svetlana Bozinovic Address: Francuska br. 6 11000 Beograd Country: Srbija E-Mail: <u>mladen@bioenergy-pont.rs</u> , svetlana@bioenergy-point.rs		
Phone: tel: +381 11 734 66 75 tel: +381 11 734 66 76 Website: <u>www.bioenergy-point.rs</u>		





Company name: Radijator Inženjering DOO



Fields of our activities for small district heating:

In addition to primary production activities "Radiator-Engineering Ltd Kraljevo, performs works of thermo installations (heating, ventilation-air conditioning, installation of technical gases), makes and mounts steel constructions.

#### **References:**

Our heating boilers were installed in many towns in our country, in Prijepolje, Beograd, Mokra Gora, Novi Sad, Subotica etc. (Boilers of industrial class from 100-500KW of power are installed there, some in cooperation with Austrian company Gilles).

http://www.radijator.rs/references\_en.php

Our development system is described in case study "FIRING UP BIOMASS HEATING SYSTEM DEVELOPMENT WITH SOLIDWORKS SOLUTIONS" http://www.solidworks.com/sw/successes/customer-story.htm?record=Radijator-In%C5%BEenjering&id=6534

General fields of our activities:

Radijator Inženjering d.o.o. (Radiator Engineering Ltd) is a leading manufacturer of solid-fuel, biomass-pellet, and liquid-fuel heating boilers; heating systems and boilers for residential use; storage tanks for fuel oil; and boiler buffer tanks.

#### General description of our company:



"Radiator Engineering" Ltd in the business sense is the legal successor of craft shops "Radiator", which was founded in 1991. year, whose main activity was the installation and maintenance of central heating which today we still do. First Boiler on solid fuel we have created 1985th year.

The company is in today's form exists since 2002. year and from year to year, makes great progress steps, always trying to be first in the application of new technologies, quality products and wining new - the



European market. Main activity of company is the production of boilers to solid and liquid fuels. Other activities of the company are installation and maintenance of central heating and production of steel structures. Product quality is based on knowledge of professional people in the company, which is proof of obtaining recognitions and many awards for quality. As we expanded and perfecting the production, we came to a level that boilers are made by latest world technologies. From the field of cutting sheet metal shall be allocated: laser cutting, CNC plasma process and CNC punching. The procedure is performed robotic welding and the use of machines. The best indicator of quality products and services is the fact that every year production increases.

Today "Radiator - Engineering" employs over 350 workers of which 40 of them are graduate mechanical engineer's that work every day on improving product quality.

Sure stability of quality, both product and operations firm, was confirmed by obtaining a certificate of quality system ISO 9001:2008.

#### Contact:

Contact person: Nenad Radosavljević Address: Kraljevo str. Živojina Lazića Solunca no. 6 Country: Serbia E-Mail: neso@radijator.rs Phone: +381 63 689573 Website: <u>http://www.radijator.rs/</u>







Company name: REHAU d.o.o. Stražilovska 7 11272 Dobanovci	C REHAU® Unlimited Polymer Solutions
Fields of our activities for small distric	0
- pipes production (polyethylene)	INSULPEX
References:	
- Junaković spa, Apatin	
- Kanjiža spa - Slobomir, Bijeljina	
- Viminacijum	
General fields of our activities:	
- polymers production for construction, industry and automotive sector.	
<ul> <li>insulation products for the heating, water and sewerage systems.</li> </ul>	
General description of our company:	
The company has been founded in 1948 in Germany. In Serbia company	
operates since 2002	
Contact:	
Contact person: Nebojša Stanić	_
Address: Stražilovska 7, 11272 Doban	ovci
Country: Serbia	
E-Mail: nebojsa.stanic@rehau.com Phone: +381 11 3770311	
Website: www.rehau.rs	

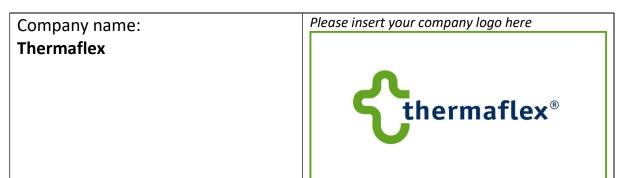


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Company name: S.O.K. doo Kraljevo		
Fields of our activities for small distric	t heating:	
- Home and small solar heating s	ystems	
References:		
Our small home solar systems were in	stalled in many town	s (over 50) in our
country but we have not evidence of t	his persons. We have	many pictures
from installations since 2007.		
General fields of our activities:		
- Import, trade and install solar v		
- Import, project and install equipment for reactive power compensation		
<ul> <li>Import, project and install PV systems</li> </ul>		
- Electric power supply for end users		
General description of our company:		
The company established at 2006 and 2007 reorganized as limited liability company. S.O.K. doo is small family company with 1-2 workers. S.O.K doo first time in Serbia imported and installed compact small solar heater with evacuated tubes at 2007. S.O.K. doo first time in Serbia build 15kW PV system in Serbia at 2010. The company has made more than 50 projects of solar power plants from 2010 to 2014 and has built 15 solar plants in the same period. The company in the period from 2007 to the present time has made to more than 100 systems of reactive power compensation in Serbia and Montenegro. S.O.K. doo. The company in March 2015 was licensed, and January 2016, has started the supply of electricity to end customers. More about our work you can see (photo) on our facebook page: https://www.facebook.com/SOK-doo-197699000254120/		
Contact:		
Contact person: Srdjan Dragojlović, di	pl.ing.el.	
Address: Mirka Lukovića 2		
Country: Serbia	_	
E-Mail: <u>sok@sokdoo.com</u> , info@jeftir	nastruja.biz	
Phone: +38136321654		
Website: www.sokdoo.com		





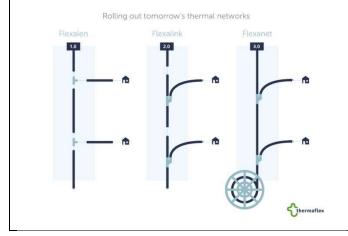
Fields of our activities for small district heating:

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.



#### <u>References:</u>

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 privatly 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: <u>www.thermaflex.com</u>





Company name: Thermoquality	
<u>Fields of our activities for district heat</u> Thermoquality d.o.o is specialized for District Heating and gas installations p heating and cooling industry. Thermoquality is also representative a in Serbia	design and delivery of Hot Water,
References:         -Pančevo (sanitary hot water )         -Belgrade (Public Utility Company Beogradkse Elektrane, various Hotels and Hospitals)         -Užice (reconstruction of boilers and boiler rooms)         -Novi Pazar (reconstruction of boilers and heating pipelines )         -Kosjerić – (heating pipelines)         -Požarevac – (heating pipelines, substations, design and delivery of thermotechnical installations         -Zrenjanin – (Sport Hall, City Power Plant and Hospital)	

General fields of our activities:

Project realization from design to installation for pre-insulated pipes for district heating/cooling and other thermal energy projects including gas installations.

Owner and Director of Thermoquality: M.Sc.Eng. Budimir Radenovic Possess licenses of Chief designer under following license number: 330 0669 03 Possess licenses of Chief contractor under following license number: 430 0343 03 Available on Serbian Chamber of Engineers: http://www.ingkomora.org.rs/clanovi/pretraga.php

Contact: Thermoquality

Contact person: Budimir Radenovic

Address: Jurija Gagarina 12b lok. 3 Serbia, Belgrade 11070 Country: Republic of Serbia

E-Mail: radenovicbudimir@gmail.com Phone: +381 63 828 0 915 +381 11 428 0693







Company name: VIESSMANN



climate of innovation

Fields of our activities for small district heating:

- biomass and fossil fuel boilers production 35 13,000kW
- heat pumps up to 1300kW
- solar thermal
- gas modular heating plant up to 900kW
- transportable energy plant 600-6,000kW

#### **References:**

- control units for heating stations in 5 cities in Serbia
- JKP Toplana Loznica, JKP ENERGETIKA Trstenik Istok, Zapad, Sever, JKP Gradska toplana - Novi Pazar, JKP BADNJEVO – Negotin, JKP Toplana Leskovac, JKP Toplana Knjaževac, JKP Toplana Loznica, JKP – ENERGETIKA – Trstenik, TO Loznica – Banja Koviljača, TO Loznica – Moda, JKP Gradska toplana – Kruševac, Energetika Kragujevac – Erdoglija, Energetika Kragujevac – KBC, Energetika Kragujevac -Centralna Radionica, Energana Sombor Nova Toplana - Sombor, Toplana Užice Aleksića most - Užice, Toplana Užice Lipa - Užice, Toplana Čačak Vinara - Čačak, Toplana Užice Senjak - Užice, Toplana Kruševac Prnjavor - Kruševac, Toplana Kruševac Centralni izvor -Kruševac, VP dom Kruševac,

General fields of our activities:

- boilers up to 20MW
- hot water storage
- air condition systems

General description of our company:

The company has been founded in 1917 in Germany and today is one of world leading in heating systems. The company operates in Serbia since 1971 and from 2001 as self owned with dedicated warehouse in Belgrade and 15 employees. The company applies German and EU standards.



# CooHeating

Contact: Viessmann d.o.o. Beograd Contact person: Bojan Grujički Address: Tabanovačka 3, 11000 Beograd Country: Serbia E-Mail: <u>viessmann.srb@sbb.rs</u> Phone: +381 11 3097887 Website: <u>www.viessmann.rs</u>





### Vaš partner

### zaizgradnjumalihcentraliziranihtoplinskihsustava

Imetvrtke:
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Vodoskok d.d.

# **∛**odoskok

Našeaktivnostivezaneuzcentraliziranetoplinskesustave:

- 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)

#### Reference:

Toplovodni cijevni sustavi Thermaflex Flexalen su u posljednjih 20 godina instalirani u brojnim projektima izvedenim u Republici Hrvatskoj. 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 ). Dodatno možemo navesti projekte s predizoliranim cijevnim podzemnim sustavima za distribuciju rashladne vode u hotelsko-apartmanskim objektima i kampovima u priobalnim područjim te projekte za distribuciju vruće sanitarne vode.

Općenitapodručjanašegdjelovanja:

- 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

## CooHeating



Vodoskok d.d. je tvrtka osnovana u 2003. godine. Trenutno su u sastavu Vodoskok grupacije Heplast-pipe Prelog, Vodoskok 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 domaćih proizvođača (MIV).

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Company name:	
Wilo Beograd d.o.o.	<b>WILO</b>
Fields of our activities for small district	heating:
- pumps and	
- pumping systems	
References:	
- pumps in heating stations in: Šabac, Beograd, Niš, Novi Sad,	
Obrenovac, Zrenjanin, Pančevo, Valjevo, Subotica, Loznica, Leskovac,	
Novi Pazar, Bačka Palanka, Ruma, Jagodina, Kraljevo, Kruševac, Pirot,	
Negotin, Bor, Trstenik	
General fields of our activities:	
- pumps for heating, cooling, climatisation, water and sewerage systems	
General description of our company:	
The company has been founded in 1876 in Dortmund, Germany. In Serbia	
company is present from 2006 currently employs 12 employees, of which 7	
engineers in Belgrade, Novi Sad and Nis.	
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