

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

Project No: 691679



Cooperation with the industry

Country: Slovenia

WP 4 – Task 4.2 / D 4.2

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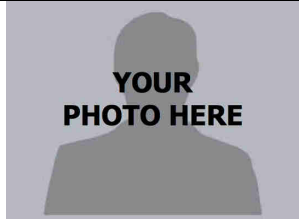


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CoolHeating website: www.coolheating.eu

Your partner in building a 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>The supply of pre-insulated pipe systems:</p> <ul style="list-style-type: none"> - Flexible PEX and stainless steel pre-insulated pipes - Rigid steel and stainless steel pre-insulated pipes - Manufactured by Brugg Rohrsystem Ag 	
<p>References:</p> <p>Some of the major references</p> <p>2000 Terme 3000 Moravske Toplice total of 1200m of laid pipes (Calpex and Premant)</p> <p>2003 Dobrovnik total 2.400m of laid pipes (Calpex in Casaflex)</p> <p>2009 Terme Olimje Podčetrtek 1550 m pre-insulated flexible pipes Calpex</p> <p>2010 Toplifikacija v KS Lokovica 7125m pre-insulated flexible pipes Casaflex</p> <p>2012 Apartmajsko naselje Golte 629m pre-insulated flexible pipes Calpex</p> <p>2013 Kidričevo dvorec Sternthal 747m pre-insulated flexible pipes Casaflex</p> <p>Boiler room Brezje at Dobova, 744m pre-insulated rigid pipes Premant</p> <p>2014 Boiler room Paloma Sladki Vrh 4.530m pre-insulated rigid pipes Premant</p> <p>References published on our website:</p> <p>http://cevna-tehnika.si/index.php/reference/references/C16</p>	
<p>General fields of our activities:</p> <p>Sales, technical consulting, installation, pre-insulated pipes for district</p>	

heating	
<p>General description of our company:</p> <p>CT Cevna tehnika is a company with eleven employees.</p> <p>Our aim is to monitor the needs of the market, to address our clients' requirements and offer support in the selection of the desired products. The main strengths of the company are qualified staff, flexibility, quick responsiveness, and quality, which is always given priority.</p> <p>CT Cevna tehnika d.o.o. as a general representative of the company Brugg Rohrsystem Ag aims at:</p> <ul style="list-style-type: none"> - Ensure the Slovenian market the highest quality of district heating 	
<p>Contact</p> <p>Contact person: Tomislav Blagus</p> <p>Address: Teharje 1b</p> <p>Country: Slovenia</p> <p>E-Mail: tomislav.blagus@cevna-tehnika.si</p> <p>Phone: 03/428-50-50</p> <p>Website: www.cevna-tehnika.si</p>	

Your partner to build small district heating systems

<p>Company name: Ecoinvest d.o.o.</p>	
<p>Fields of our activities for district heating: Ecoinvest is specialized realization of complete district heating networks including consulting, design, material supply, construction work and installation. Ecoinvest is also representative and long-lasting partner of Thermaflex in Slovenia.</p> <div data-bbox="874 712 1374 965" style="border: 1px solid green; padding: 10px; text-align: center;">  </div>	
<p>References district heating:</p> <ul style="list-style-type: none"> - DOLB Energy Čardak Crnomelj: supply and installation of pre-insulated district heating system, including construction work - BOROVNICA - The Ministry of Defence: supply and installation of pre-insulated district heating system - Primary school Cerklje: supply and installation of pre-insulated district heating system - Mokrice Castle: the supply of pre-insulated district heating - Music school Žalec: supply and installation of pre-insulated district heating system - Residential area Postojna supply pre-insulated district heating system - Minerva Ljubljana: the supply of pre-insulated district heating system - Energy Ljubljana: supply of pre-insulated district heating systems - Energy Maribor: supply of pre-insulated district heating systems - Energy Celje: supply and installation of pre-insulated district heating systems - Terme Čatež: supply and installation of pre-insulated district heating system - Terme Topolšičica: supply and installation of pre-insulated district heating system and the flow of geothermal water - CERO Celje: supply and installation of pre-insulated district heating system - Lesnina Celje: the supply of pre-insulated district heating system - DOLB GG Novo Mesto: supply and installation of pre-insulated district heating system - Possession of Pule: supply and installation of pre-insulated district heating system, solar heating system - DOLB Kočevje: installation of pre-insulated district heating system - Municipality Novo Mesto installation of pre-insulated district heating systems <p>References General:</p> <ul style="list-style-type: none"> - Poorvo Oil Raffinery – FinnaInd - IKEA – Norway - KVA Bern – Schwitserland - CENTRALE THERMIQUE EN PROVENCE- France - Flügger A/S - Denemark - YOKOHAMA, Mississippi - United States - Volkswagen AG, Wolfsburg – Germany - Daimler AG – Germany - Robert Bosch GmbH - Germany - PCK Raffinerie Schwedt - Germany - HGA Senden - Germany - HKW Kiel - Germany - ENBW Stuttgart – Germany - Haus des Landtags - Stadt Stuttgart – Germany - OLG Stuttgart – Germany - DRK – Germany - Porsche Weissach – Germany - SKF - Germa 	

General fields of our activities:

Industrial and pipeline installations on refineries, thermal power plants, biomass systems, steam pipelines, district heating and cooling systems, hydropower plants and nuclear power plants.

Foundation: 1991

Employees: 104

Owner and Director of Ecoinvest:

Matija Kitanovski, univ. dipl. med. kom.

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Your partner in building a small district heating systems

<p>Company name: INEA d.o.o.</p>	
<p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Natural gas CHP systems - Monitoring systems of energy flows - Management systems (PLC, SCADA) - Feasibility studies 	
<p>References:</p> <p>2011 SILKEM, Kidričevo A complete CHP plant Pel = 1.600 kW, district heating</p> <p>2012 SILKEM, Kidričevo A complete natural gas CHP plant Pel = 1.000 kW, district heating</p> <p>2014 GGE d.o.o. / Thermana, hotel and pool complex, district heating Installation of the system for the simultaneous production of heat and electricity with a gas engine Pel = 800 kW</p> <p>2014 GGE d.o.o. / Sava hoteli Radenci, hotel and swimming pool complex Installation of the system for the simultaneous production of heat and electricity with a gas engine Pel = 889 kW</p> <p>2014 TAMES / Komunala Slovenj Gradec, district heating Installation of the system for the simultaneous production of heat and electricity with a gas engine Pel = 999 kW</p>	
<p>General fields of our activities:</p> <ul style="list-style-type: none"> - Automation of production lines - Process control systems for continuous and batch processes 	

- Solutions for manufacturing informatics (planning and monitoring of production)
- Systems for monitoring, analysis and optimization of energy consumption
- Systems for balancing peak electricity demand
- Conducting energy audits and energy feasibility studies for industry

In the context of development activities in the company, using our experience in industrial energy management systems, we are developing an advanced platform of virtual power plants on the basis of management of consumption of electricity and heat.


General description of our company:

INEA Ltd., a company located in Ljubljana. Since the establishment in 1987 we are assisting numerous companies at national and international level in solving technical and business challenges in the areas of process automation and efficient energy production and energy use. Today we employ over 60 top experts, mostly masters and engineers from the technical field. The company maintains partner relationships with professional organizations and suppliers of high quality technological equipment. Group INEA has over 8 million annual turnover and has its own companies in Serbia, Macedonia and Croatia.

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Your partner in building small district heating systems

<p>Company name: HEMOVE, Tadej Auer, s.p.</p>	
<p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - Preparing basic designs of district heating systems (DH), preparation of technical-economic analysis of production sources and distribution networks. - Integrated design of DH systems with a central control system (production, distribution network, heating sub-stations). - Setting up a central control system with visualization of all elements of the DH system. - Calibration and simulations of the DH system operation with all key technical and economic parameters. 	
<p>References:</p> <ul style="list-style-type: none"> - <i>Project management of Wood biomass DH system construction in Ribnica, Semiču (management of the administrative procedure, dimensioning, design, implementation management).</i> - <i>Expert control of construction of the heating source in a DH system (biomass boilerroom) Terme Snovik.</i> - <i>Preparation of the feasibility study for a biomass DH system for the municipality of Šentjernej Šmartno v Tuhinju.</i> - <i>Preparation the technical-economic analysis of DH system in the municipalities Vrana, Krsko, Brezice.</i> - <i>Preparation of the project documentation for a system of central cooling of office buildings for the public utility company Grosuplje (compressor cooling via fan convectors).</i> 	
<p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Technical-economic optimization of existing DH systems (hydraulic and thermodynamic analysis of all key parameters of the DH system).</i> - <i>Designing DH systems (dimensioning of production systems, distribution network, Central Control Systems).</i> - <i>Technical assistance for DH system operators (counselling on expansion of existing networks, technical training)</i> 	

- *Management of administrative procedures for the purpose of plant/system erection and development for the local or urban communities.*

General description of our company:

The company was founded in December 2011. The main customers of our services and partners are operators of DH systems, local and urban communities who are planning a district heating system, and large plant erection companies in the field of DH systems. With our activities we contribute to the efficient use of energy and use of renewable sources, where this is possible. Currently, we operate with 1 employee and 3 external collaborators.

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ID: 37490931*

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Your partner in building a small district heating systems

<p>Company name:</p> <p>PETROL, Slovenska energetska družba, d.d., Ljubljana Dunajska cesta 50, 1527 Ljubljana</p>	
<p>Fields of our activities for small district heating:</p> <p>We offer a complete service - from planning, construction and management of the district heating systems (DH), including the financing – based on the principle of contractual supply of heat. We provide customers with a reliable, safe, environmentally acceptable and cost-effective supply of heat and / or cold.</p> <ul style="list-style-type: none"> • We develop the basic design, based on the knowledge of the relevant technical solutions and ongoing monitoring of the state of the art technological solutions, which are thoughtfully introduced into practice. At the same time we always check the economic viability of the project. Our principle is to offer solutions that are optimal both technically and economically throughout the lifetime of the district heating system. • We produce all the necessary documentation: documentation for obtaining the building permit, detailed design, documentation for preparation of the tenders and other documentation. At the same time we acquire the necessary documentation in administrative procedures (project conditions, consent to construction, to connect ...). • We carry out all necessary works for erection of district heating systems, including supply of all necessary equipment. In doing so, we also cooperate with other contractors. We carry out certain works on electrical and mechanical installations, in particular in the introduction of remote monitoring and control software including equipment for optimization of the district heating systems. We carry out management of all works and supervise the works according to the Construction Act. • Effective management of district heating systems, including servicing and maintenance is vital after system erection. Our technical and economic optimization of the district heating systems is based on the actual operation and on the calibrated models and the real time data, unlike competing companies whose operations are based on static models and design data. This allows the system operator effective monitoring and control, and easy management, and especially it allows achievement of strategic goals: lowering of costs of the operation and maintenance, reduction of primary energy use and improvement of the quality of the service for customers. 	
<p>References:</p> <p>At the end of 2015, the Petrol Group operated 25 district heating systems in Slovenia. Of these, 16 were organized as an optional public service - a concession contract with the municipality. The remaining nine district heating systems are operated on a commercial basis or equity distribution system, which means that the contracts are signed with the end-users.</p> <p>At the same time Petrol performs services in other countries, together, we are present in 36 district</p>	

energy systems. These systems have, in recent years, supplied a total of 9100 heating substations.

Administered through our SCADA systems are 1300 installations in 23 systems with a total output of 7,500 MW and are continuously optimized.

References by type of resources and systems:

- **DH systes - cities:** Ljubljana, Beograd, Novi Sad, Zagreb, Maribor, Celje, Ravne, Hrastnik, Sisak, Osijek, Velenje, Tuzla, Gradec, Celovec, Dunaj, Bolzano, Plovdiv, ...
- **DH systes – biomass, natural gas:** Železniki, Preddvor, Nazarje, Luče, Mozirje, Solčava, Postojna, Ribnica, Ivančna Gorica, Mojstrana, Hrušica, Maribor Pobrežje, Metlika, ..
- **Biomass boilerrooms:** Besnica, Koper (2), Piran(2), Pivka, Gorje, Gorenja vas – Poljane, Cerkno, Brda, ...

By technical economic optimizations for example - only in Belgrade we save 1.5 million euros of costs per year.

General fields of our activities:

The primary areas of operations of the Petrol Group are the oil trade activities. The core development area is the introduction of new energy-related activities, including the marketing of gas, heat and electricity, the management of major environmental projects in the long term marketing of renewable energy sources. In Petrol Group has 2015 sold 120.9 million m³ of natural gas and 14.1 TWh of electricity. In 2015, the Petrol Group operated 30 concessions for gas supply; customers were supplied from a number of depots for liquefied petroleum gas.

An important segment of Petrol's integrated energy supply is also becoming heat supply, which is produced and distributed through the district heating systems and systems for cogeneration of heat and electricity.

General description of our company:

The company is distinguished in particular by quality of goods and its services, a high level of reputation, brand recognition, and a stable financial position. Including the franchised service stations, the Petrol Group employs 4,068 people, at the end of 2015. With 3.81 billion euros in net revenues from the sale Petrol Group is the largest economic entity in Slovenia.

From the Slovenian national oil corporation Petrol Group is developing into a comprehensive regional provider of energy and environmental services. With clear strategic orientations and development priorities we shape not only Slovenian energy market, but are becoming an important player in the energy market in Southeast Europe.

In Petrol we provide reliable, economical and environmentally friendly supply to end-consumers in Slovenia and SE Europe using a comprehensive offer energy and environmental products and services. Through the extensive network of service stations, drivers are offered everything they need for a safe and comfortable travel. We provide companies and local communities a comprehensive energy supply. We provide households all the energy they need for their home - at their home.

We want to become a leader in quality and the development of a comprehensive range of energy services and the "convenience" model of service stations in South Eastern Europe with very satisfied customers.

Contact

Contact person:

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Your partner to build small district heating systems

<p>Company name: PURLEN d.o.o. Industrijska ulica 4b 9220 Lendava</p>	
<p>Fields of our activities for small district heating:</p> <ul style="list-style-type: none"> - <i>District heating pipes, fittings, components and accessories</i> - <i>Pre-insulated pipes PURLEN-A (media pipe: steel, stainless steel, ductile iron, PE, PP, PB, PVC) – manufacturing</i> 	
<p>References:</p> <p>Supply and installation of district heating system - pipes: Municipality Cankova, Biomass district heating system for municipality; Municipality Lendava, Geothermal district heating system for municipality; Municipality Kozje, Biomass district heating system for municipality; Municipality Pokupsko, Biomass district heating system for municipality</p> <p>Supply of district heating system - pipes: district heating system: Spa Lendava; Municipality Slovenske Konjice; from industrial zone to Nova Gorica city; Greenhouse Revital in Kidričevo city; Spa Čatež; Industrial zone Radlje ob Dravi; Ocean Orchids greenhouses Dobrovnik; Steamline Helios Domžale; Biogas plant district heating system: Ginjevec Radmožanci, Rakičan, Organica Dobrovnik; Biogas plant district heating system Vučja vas and Ormož; District heating system for: Drying house Viševica d.o.o. Perušić; Tourist resort Crveni otok, Rovinj; Thermal power plant Obrenovac; the City Vogošće, connection of the Castle Vindija Varaždin; Biogas plant Rakičan to Hospital Rakičan</p> <p>Supply of district cooling system - pipes: District cooling system for Hospital in Kecskemet; District cooling/heating system for Hotel Prezident Dubrovnik; District cooling system for IKEA Zagreb</p> <p>Supply of geothermal district heating system - pipes: Thermal Spa Moravske Toplice; Thermal Spa Banovci; Thermal Spa Terme Olimija; Thermal Spa Tuheljske Toplice; Thermal Spa Terme Čatež; Thermal Spa Rivera Ilidža; District heating system for the City: Szigetvár and Lendava; District heating system for the Greenhouses Paradajz Renkovci; District heating system for the Congress Center Hotel Sarajevo</p>	
<p>General fields of our activities:</p> <ul style="list-style-type: none"> - <i>Producing pre-insulated pipes</i> - <i>Technical support and consulting</i> - <i>Project optimization</i> - <i>Installation of pre-insulated pipes</i> 	

General description of our company:

The company was founded in year 2002. We continue more than 35 years of manufacturing of insulation materials from poliurethan foam in Lendava. The beginnings were under the company Gorenje – Varstroj. Our main products are pre-insulated pipes and fittings for district heating and cooling. We sell them under the trademark PURLEN-A. We are the only manufacturer of pre-insulated pipes in Slovenia.

Till now we produced over 1,8 million meter of pre-insulated pipes and more than 400.000 pieces of fittings. Currently, we operate with 8 employees and 4 external collaborator.



Pre-insulated pipes PURLEN-A




Pre-insulated pipes – duktil



Installation of pre-insulated pipes PURLEN-A

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Your partner in building a small district heating systems

<p>Company name:</p> <p><i>Simon d.o.o.</i> <i>Taborska c. 34</i> <i>1290 Grosuplje</i> <i>EU-Slovenija</i> <i>Tel.: (01) 786 49 15</i> <i>(01) 786 49 14</i> <i>Fax.: (01) 786 49 13</i> <i>web: www.simon.si</i></p>	
<p>Fields of our activities for small district heating:</p> <p><i>Manufacturing of compact heating sub-stations for heating and cooling for all types of objects. Stations can be manufactured in a direct or indirect version. They can be prepared for different temperature and pressure regimes.</i></p>	
<p>References:</p> <p>SITULA Ljubljana (heating sub-stations), STADION, DVORANA STOŽICE (heating sub-stations), HOTEL PLAZA Ljubljana (heating sub-stations), HOTEL CUBO Ljubljana (heating sub-stations), SALUS Ljubljana (heating sub-stations), MOLDAVIJA Kišinjev (56 heating sub-stations), BIOMASE POSTOJNA, SEMIČ, RIBNICA, GORNJA RADGONA (heating sub-stations), ŠPORTNA DVORANA PODMEŽAKLA Jesenice (heating sub-stations), EKO SREBRNA HIŠA Ljubljana (heating sub-stations), NARODNA GALERIJA Ljubljana (heating sub-stations), FRUCTAL AJDOVŠČINA (heating sub-stations), BOLNICA SLOVENJ GRADEC (heating sub-stations), DOM STAREJŠIH OBČANOV FUŽINE Ljubljana (heating sub-stations), OŠ POLJANE (heating sub-stations), OŠ MIRANA JARCA, OŠ DANILE KUMAR (heating sub-stations), ORL KLINIKA Ljubljana, NEVROLOŠKA KLINIKA Ljubljana, PEDIATRIČNA KLINIKA Ljubljana (heating sub-stations), BOLNICA GOLNIK (heating sub-stations), CELOVŠKI DVORI Ljubljana (heating sub-stations), RAVNE NA KOROŠKEM (65 heating sub-stations)</p>	

General fields of our activities:

In addition to compact heating stations our production company manufactures also the following products:

- *Heat storage or boilers for heating, cooling, domestic hot water....*
- *The distributors / collectors for heating, cooling, hot water....*
- *Hydraulic separators*
- *Other products (bleed vessels, calming pipe, ...) for heating sub-stations, boilers, boiler-rooms*

All of the above listed products can be manufactured in stainless steel version.

General description of our company:

We are a company that was founded in 1997. The founder Simon Virant began operating as a sole entrepreneur with two employees. The number of employees increased as it gradually established itself as one of the leading manufacturers of compact heating stations in Slovenia, while also the needs and requirements of clients increased. Thus, in 2002 the status of a sole entrepreneur was converted into a new company Simon Ltd., which today has 21 employees. Our main customers respectively clients are mechanical installers, distributors of thermal energy and end-users. Business partners with whom we work are recognized European and Slovenian companies in the field of heating / cooling technologies (Swep, Danfoss, Wilo, Grundfos Pumps IMP, Sauter, Belimo, Samson, genebra, Siemens, Herz, TA, IMP Fittings,).

Picture 1: Company Simon Ltd.



Picture 2: Compact heating sub-station in the cabinet.



Picture 3: Compact heating sub-station for preparation of sanitary hot water



Picture 4: Distributor / collector for heating



Contact

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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:

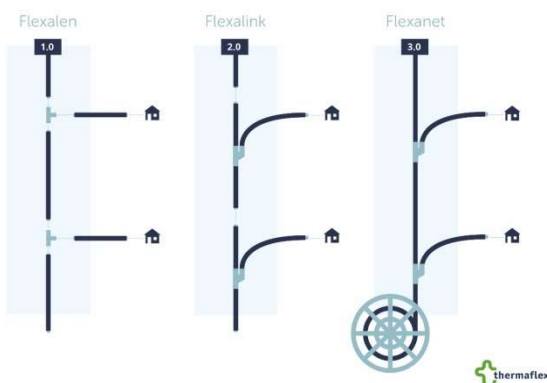
Thermaflex is the manufacturer of Flexalen pre-insulated pipes – diameter range d16-d225. The medium pipe is made out of Polybutylene, which is known for its flexibility and durability. Insulation and outer casing are made of PE. We strive for cost efficiency, fast installation and durability.



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.

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 Website: www.thermaflex.com



Your partner in building a small district heating systems

<p>Company name: WVterm d.o.o. Preredovičeva 22 SI – Maribor</p>	
<p>Fields of our activities for small district heating: Production and sale of pellet and wood chip boilers for up to W55 of humidity. We produce boilers from 25 to 6.000 kW. The program also contains Wood chips steam boilers from 120 to 4.000 kW, operating pressure of up to 16 bar. The Company also manufactures all feeding technology, fuel silo equipment and hot water heat storage. All supplied technology can be installed and put into operation by WVterm.</p> <p>In the planning process we work closely with the engineering Company and the investors in order to obtain the optimal solution according to the investors targets in accordance with the applicable standards and regulations. We also provide DVG schemes for basis for statics and architecture, ...</p>	
<p>References:</p> <ul style="list-style-type: none"> - <i>District heating Čardak Črnomelj, 2,2 MW boiler</i> - <i>District heating Kozje, 1,5 MW boiler</i> - <i>Small heating system Brezje pri Ljubljani 0,15 MW boiler</i> - <i>Boilerroom Olimje, 2,2 MW boiler</i> - <i>Boilerroom OŠ Puconci, 0,4 MW boiler</i> - <i>Boilerroom Gorenje Marles, 2,0 MW boiler</i> - <i>Grain drying Škaper, 3 MW boiler</i> - <i>Boilerroom Inles, 2,5+1,5 MW boilers</i> 	
<p>General fields of our activities:</p> <ul style="list-style-type: none"> - Manufacturing of grain and cucurbits drying equipment - Heat exchanger manufacturing - Economizer manufacture - Manufacture of various constructions - Manufacture of chain and screw conveyors - Production of firewood boilers with lambda probe and superior control - Laser cutting - Bending with CNC bending machines - Rolling sheet metal with CNC machines - Robot welding - Cutting bar material with CNC machine - Installation and maintenance of manufactured equipment 	

General description of our company:

The company has over 150 years of tradition, until 1970 WVterm produced wagons and steam locomotives. After 1970 the production of boilers under license STADLER began. In 1985 we started to produce biomass boilers under the brand Bioflamm. The company has its own development and research group. Since 2015, WV term is a part of the NRG group from Germany and participates in production of boilers and components for steam and ORC cogeneration.



Office



Steam boiler 3 MW



Boiler 1,5 MW Kozje



Boilerrom Novo Mesto

Contact

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