



metroENERGY

d.o.o. for engineering activities and technical advisement

Dear Sir or Madam

Please, allow us to introduce to you our company Metro Energy d.o.o. for engineering activities and technical advisement, our expertise, possibilities, vision and offer.

Company Metro Energy is founded at the year 2008. With a goal to provide complete service:

- Maintenance
- Service
- Checking and testing off all elements in gas installations

Developing our business, making precious experience and replying to needs of our satisfied clients, company has expended expertise on to:

- Designing
- Building
- Reconstruction of thermo-energetic facilities, thermo-technical, gas and electric installations

In our company to this day has been managed number of high complex projects for residential and business buildings. Licensed engineers of mechanic, construction and electricity and authorized servicers are capable to answer for any of your needs. We are authorized by Serbian state agency "Secretariat for energetics and mineral compounds" for maintenance, service check and examination of gas installations. Following the trends, we also own a license for energetic efficiency and we manage developing studies about energetic features of buildings and energetic passports.

In a goal for managing quality services and responding on requests which are set by the law, we have managed to secure all necessary conditions for performing activities. Company also owns certificates and beliefs about managing skills as authorized service for branded world wide manufacturers of gas equipment.

Another part of the company is the laboratory for testing according to SRPS ISO/IEC 17025:2006 standard which owns a certificate of accreditation issued from accreditation body of Serbia.

The staff owns certificate state licensing exam for:
Managing and maintaining of gas equipment, plants, installations,
maintaining objects for transport and distribution of natural gas.

Our past success is a result of clear business vision and permanent improvement of our professional technical staff. We think that with our permanent improvement, professional qualifying and quality work we have managed to achieve partner relations with our clients and that we have completed our mission and our goals on the market. With all that stated we give our self right to consider us as your new business partner.



Passport of energetic efficiency

Ministry of energy and mining:

"Energetic passports will be able to issue licensed companies whose main field of work is designing or executing work but with personnel that has a certificate of Serbian chamber of engineers. These experts will make project studies about energetic efficiency of objects, and the results will be put in a specially manufactured software to gain a category of energetic passports for every objects."

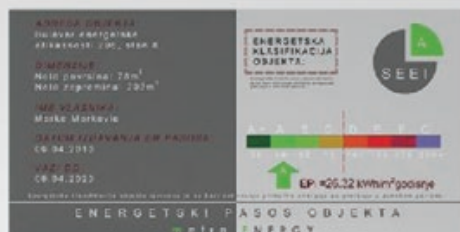
Passport of energetic efficiency or energetic passport presents certificate about energetic efficiency of the building.

Why is this important and what is its purpose?

In the future, study about energetic efficiency will be required as a part of technical documents for getting a construction license and energetic passport will also be required as a part of technical documents for getting a usage license.

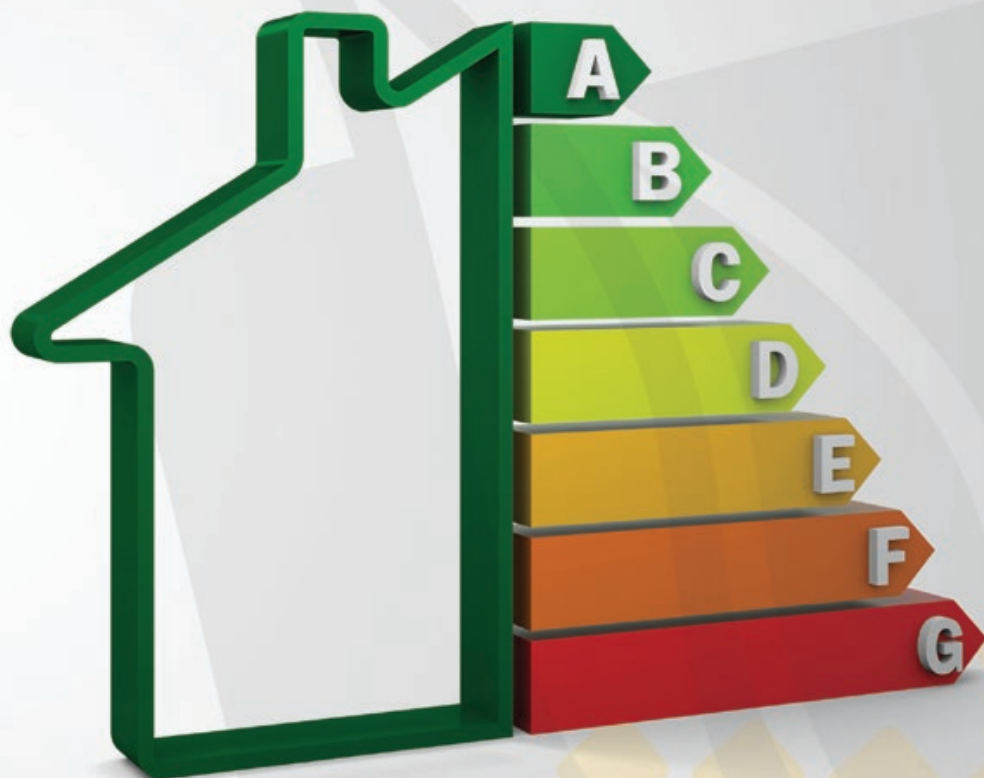
According to directive 2002/91/EC of European parliament and council, by which every building must have a passport of energetic efficiency, it is determined that residential and tertiary sector participate with 40% in final consumption of energy and they are producing almost the half of emission of carbon-dioxide (CO₂), which is double that cars and airplanes produce.

Energetic efficiency of building is "actually consumed or graded amount of energy which satisfies all kinds of needs like heating, preparation of warm water, cooling, ventilation and lighting. This amount will be shown through one or more numeric indicators which are calculated, including the isolation, technical and built-in features, projecting and positioning according to climate aspects, exposure to the sun and influence on neighbor objects, own production of energy and other factors, including internal climate, which influence on energetic needs", are said in the document. The obligation is that energetic efficiency is shown in a transparent way through energetic passport, and it can contain indicator of emission of carbon-dioxide.



METROENERGY is licensed for:

- Making studies for energetic efficiency
- Energetic checking of the building
- Creating energetic report
- Creating ener



Projecting

Licensed engineers of **"Metro Energy"** are making project-technical documentation in accordance with the law, technical regulations, norms, standards and rules of profession.

Project-technical documentations includes

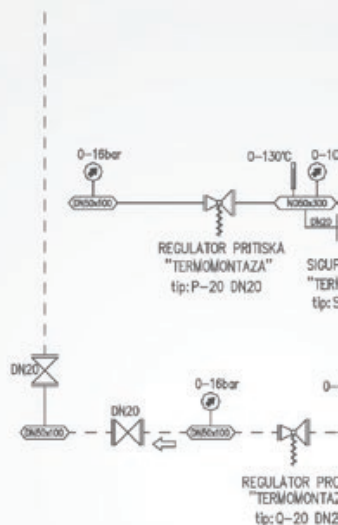
- Preliminary project with a study of practicability
- Main project
- Project of derived state

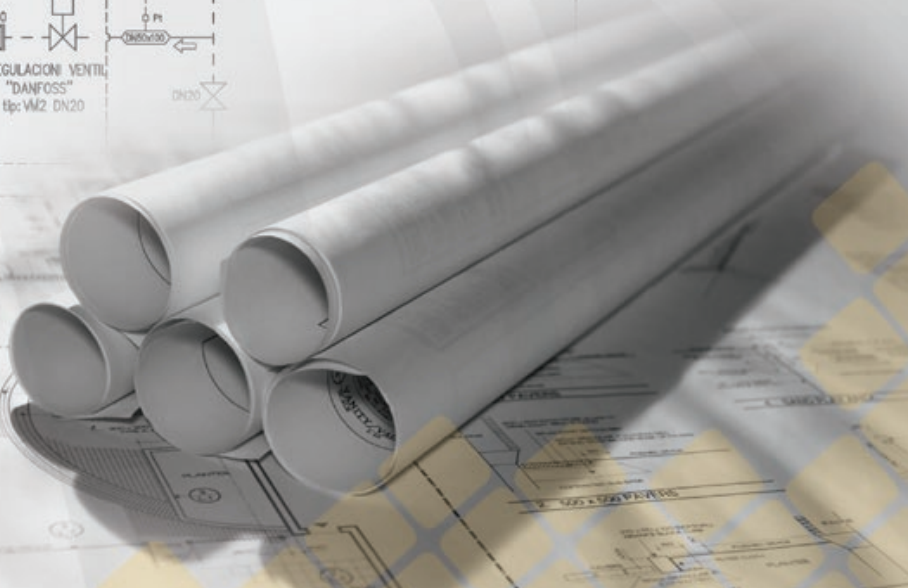
Project-technical documents contains:

- Mechanical design
- Construction design
- Electric design
- Project of fire protection
- Studies of protection and safety at work
- Studies of protection of the environment

This is the kind of projects that we do:

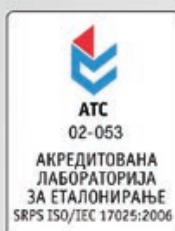
- Hot-water boilers room
- Steam boilers room
- Natural Gas installations and networks
- Measuring and regulating stations and connection pipelines
- Central heating system in all kind of objects
- Electric installations of low voltage
- Electric panels
- Lightning rod installations
- PLC equipment
- Detection of natural gas





Testing

"Metro Energy" doo owns a certificate of accreditation issued by the **Accreditation body of Serbia, number of accreditation 01-350**





Scope of Accreditation

- **PIPELINES AND GAS FACILITIES**
Testing of hardness
Testing of tightness
- **PRESSURE REGULATOR OF GAS**
Testing of external tightness
Testing of internal tightness and setting values of the pressure
- **SAFETY SHUT-OFF VALVES**
Testing of internal tightness
Testing of functionality and setting values of the pressure
- **ELECTROMAGNETIC VALVES**
Testing of tightness
Testing of external tightness
Testing of closing functionality
- **PIPELINES AND GAS INSTALLATIONS**
Testing of protective potential distribution
- **CATHODE PROTECTION STATION**
Testing of cathode station protection functionality
- **PERIODIC CHECKS AND CONTROLS**
Gas boilers
Internal gas installations
Burner and stove installations
Gas units: Gas boiler, gas furnace, gas stoves, IC heaters
- **PRODUCTS OF COMBUSTION FROM BOILERS**
Measurement of volumetric part of O₂
Measurement of volumetric part of CO
Measurement of volumetric part of NO
Measurement of volumetric part of NO₂
Measurement of volumetric part of SO₂
Determination of volumetric part of CO₂
Measurement of product temperature combustion and ambient temperature
Determination of air excess coefficient
Determination of boiler usage degree
- **ELECTRIC INSTALLATIONS OF LOW VOLTAGE**
Testing of protective conductor continuity and main and additional conductor leveling of potential
Testing of resistance of electric installation isolation
Testing of circuit branch impedance
Testing of protective unit operating on differential power
- **LIGHTNING ROD INSTALLATIONS**
Testing of grounding resistance



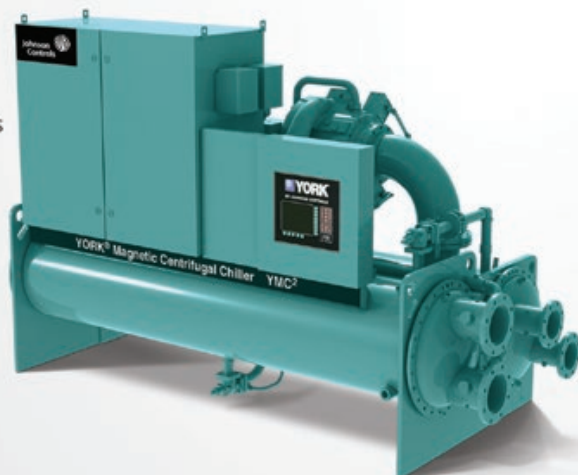
Service and maintenance

As a part of service and maintenance we dispose with top equipped, experienced and mobile crew, which are in a minimal part of time ready to go on intervention for maintenance and service anywhere on the field. We also do services of corrective and preventive maintenance and we also do maintenance according to state of the equipment which allows work without any failures of the system and more reliable of equipment. We employ high qualified service-technical team which is professionally qualified for letting units to work and doing all service actions on regulative-safety, gas and heating equipment, cooling and climate equipment.

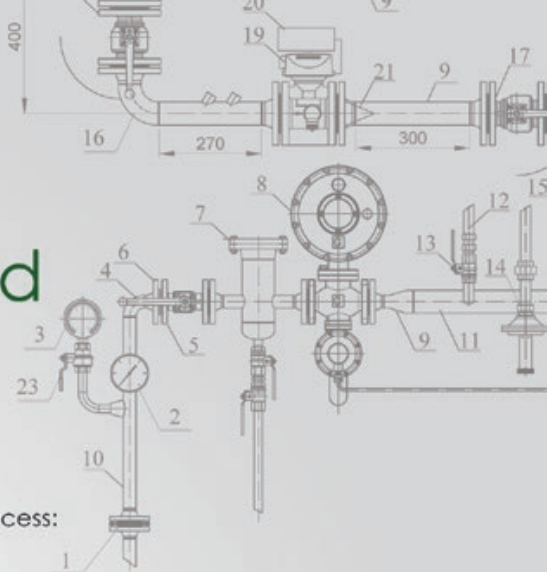
We provide to the user record keeping of executed maintenance, equipment state, we also issue record of equipment examination as well as record of tightness of gas fluids, cooling and climate equipment.

We do service and maintenance:

- Burners of manufacturers:
Weishaupt, Saccke, Baltur, Termoelektro...
- Cooling units with Freon and gas-absorb type:
Robur, Daikin, McQuay...
- Climate split system:
Siemens, Daikin, Gree, LG
- Climate chamber:
Termovent, Soko, IMP, Hidria...
- Electric and lightning rod installations
- Gas and hot water boiler rooms
- Measuring and controlling stations
- Gas detection



Construction and reconstruction



Construction and reconstruction means process:

- Acquisition of material and equipment
- Work execution
- Assembly and examination of equipment functionality
- Handover of attest-technical documentation about the investor
- Handover of object to the investor and tracking of object exploitation and other activities during the guaranty

We do construction and reconstruction:

- Water heat boiler rooms
- Gas boiler rooms
- Steam boiler rooms
- Measuring and controlling stations and pipelines connection
- Central heating installations in any kind of object
- **Burner with work adjustment on combined fuels (gas, fuel oil, easy and heavy oil, oil, TNG)**
- Low voltage installations
- Electric closets
- Lightning rod installations
- PLC equipment
- Gas detection
- Other thermal-energetic, thermo-technic, gas, oil and electric facilities



Representative references



VICTORIALOGISTIC



СРБИЈАГАС



ЈП ПОСЛОВНИ ПРОСТОР
НОВИ САД



ДРУШТВО ЗА ОДРЖАВАЊЕ АУТОПУТЕВА
СРБИЈААУТОПУТ д.о.о.

ЈКП „Београдске електране“



“Novi Sad - GAS” DP
за одржавање гаса, одржавање / одржавање





INSTITUT ZA KUKURUZ
ZEMUN POLJE



ПЕТРОХЕМИЈА



Energotehnika Južna Bačka



SOJA PROTEIN





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