



ZAGREB ENERGY WEEK
Zagreb, 14 – 19th May 2012.


14.-19. svibnja 2012.
www.zagreb-energyweek.info




GRAD ZAGREB




Covenant
of Mayors
Committed to local
sustainable energy





**Zagrebački
energetski
tjedan**



REGIONALNA ENERGETSKA AGENCIJA
S VEROZAPADNE HRVATSKE



Centar za energetske
poslove i usluge



„Development YES, pollution NO“

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PROGRAMME

MONDAY 14th May 2012

9,00 – 11,30 Kindergartens: Playroom: *Let's Talk about energy and preserve the environment*

In the playroom "Let's Talk about Energy and preserve the environment" the youngest generations will learn about energy, why it is important for all of us and how each of us, even the smallest ones, can contribute to the rational energy use and environment protection. Through play, drawing, colouring, creation of breadboard windmills and other activities all kindergartens from Zagreb area will actively participate at the Zagreb Energy Week.

Location: Zagreb kindergartens (206 locations)

12,00 – 14,00 Seminar: *„Energy Efficiency and Renewable Energy – a Real Potential for Development of Crafts and Small Enterprises“*

Chamber of Crafts Zagreb and Association of Craftsmen of City of Zagreb for their members and other interested craftsmen and entrepreneurs, held an expert presentations about new opportunities of development of the crafts and small businesses in the area of energy efficiency and renewable energy sources as well as their adaptation of business to new market conditions.

Location: Chamber of Trades and Crafts of the City of Zagreb, Ilica 49, Zagreb

10,00 – 13,00 Tribune - *„LED Lighting Technology in Urban Areas“*

The company "**Philips**" will present a technological revolution in LED lighting, a new quality of light, the freedom to design lighting solutions, dynamic control and adjustment of the lighting rhythm of life in urban areas, lighting in an integrated intelligent environment and advances in the environmental sustainability of urban lighting.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

14,00 – 17,00 Days of Open Doors – *Faculty of Mechanical Engineering and Naval Architecture: „Underground connected heating pump-Well heated transformer with depths of 100 meters“*

Faculty of Mechanical Engineering and Naval Architecture opens its doors for a tour of the Department of Thermal and Process Engineering, which will launch a pilot project of geothermal heat pumps in operation.

Location: Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Ivana Lučića 5, Zagreb

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18,00 – 19,00 „TerraBona” presentation : „Disposal and the use of EE wate resulting from photo-voltaized system use”

Non-profit organization "TerraBona" in cooperation with "MS San Eko" company will present short insight into the legislative regulation in the Republic of Croatia, on the topic of general constructive disposal of waste and the use of waste as a by product of electricity, electrical equipment and technology. They will also demonstrate practical and rounded process of utilizing photovoltaic system from initial location of use up until the production of waste and its final containment.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

TUESDAY 15th May 2012

08,00 – 16,00 Elementary Schools: Learning through play "Tell me about Energy"

In all first grades of primary schools in Zagreb a class with the title "Tell me about Energy" will be held where the teachers will by means of a picture book and an educational game teach children about energy efficiency and renewable energy sources. Furthermore, the elementary school pupils will through their projects, activities, drawings and essays show what they think how energy can be rationally used and saved.

Location: Primary schools of the city of Zagreb (114 locations)

09,00 – 17,00 Day of the Croatian Chamber of Architects, Seminar: "Sustainable Energy Architecture"

Planning, design and construction of low energy and passive buildings and zones, conversion of existing urban areas in an environmentally sustainable and energy areas of cities with the use of renewable energy, energy efficiency measures, a systematic separation, the use and recycling of waste are the foundation of the sustainable development and guarantee of the sustainability and conservation opportunities of natural resources for future generations.

Members of the **Croatian Chamber of Architects**, in collaboration with the Society of Architects Zagreb will present the modern energy concepts in architecture in new construction and reconstruction of energy facilities in terms of economic viability.

Location: Old City Hall - Zagreb, Ćirilometodska 5 (hall A)

For more information and registration : prijava@arhitekti-hka.hr

**09,00 – 17,00 Croatian Chamber of Mechanical Engineers, Seminar:
„Sustainable Energy Planning and Management“**

Croatian Chamber of Mechanical Engineers will present the new technological developments and a number of design solutions in the field of energy efficiency, the use of renewable energy sources and environmentally friendly fuels to rational use of energy, environmental protection, conservation of natural resources and improving the quality of life.

Location : Old City Hall - Zagreb, Ćirilometodska 5 (hall B)

For more information and registration : sanja.vulas@hkis.hr

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09,00-17,00 Association for Energetics for Zagreb – Forum *"Economic and Investment Forum on the green economy"*

Association for Energetics for Zagreb and company **Energo Media Services**, together with representatives of state and municipal institutions, trade and enterprise, will discuss about issues of development of 'green' economy in the Republic of Croatia and they will also present the Croatian successful 'green' economy projects. Also, they will announce an international B2B event named „GREENVEST: INVEST IN GREEN CROATIA“ - International economic and investment meetings and development and production fair on the green economy“.

Location: Old City Hall - Zagreb, Ćirilometodska 5 (hall C)

For more information and registration : info@croenergo.eu

14:00-17:00 Seminar of the *Croatian Club „Covenant of Mayors“*

Development of organizational structures in the system of local administration, collecting data and analysis of energy consumption, creating a registry of facilities, defining the priority measures, development of the Sustainable Energy Action Plan (SEAP), methodology and toolbox, funding opportunities and implementation of priority measures, making the revision of the SEAP, and also exchanging the experiences and cooperation on implementation of mutual projects at local and regional level are some of the topics of the seminar held for members of the Croatian Club “Covenant of Mayors” (19), regional energy agencies in Republic of Croatia (6) and other signatories of the Covenant of Mayors (19) and also for cities and municipalities in the Republic of Croatia that are willing to join the same in order to achieve the objectives given by EU policy.

Location: Old City Hall - Zagreb, Ćirilometodska 5 (hall D)

09,00 – 11,00 „ATOS“ Round Table – „Smart Grid“

Economic entities in the energy sector and utilities can be successful and competitive only if they establish and maintain operational excellence in everything they do. Today it is necessary to know how to deal with the information in real time, from drills and advanced energy consumption measuring advices up to the supervisory position. “ATOS” company will present the objectives and plans of “Government's Energy Strategy of Republic of Croatia”, integrated and efficient ICT Smart Grid system, simulations for using renewable energy sources and environmentally sustainable energy sources and also integrated management and energy trading.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

For more information and registration : it-solutions.hr@atos.net

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11,00-14,00 „DOOR“ Tribune – „Energy cooperatives - partnership for sustainable community development“

The civil society association “**DOOR**” (Society for Sustainable Development) and **UNDP Croatia** will present energy cooperatives and discuss about the state of today’s cooperatives in Croatia, and also about examples and possibilities for development of energy cooperatives and experiences of today’s energy cooperatives in EU.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

15,00-17,00 “MULTIBETON” Presentation- “Energy efficiency through floor heating and cooling system”

MULTIBETON company will present new technological solutions in energy efficiency application in the heating system by installing the pipelines in the floor and walls; modular approach of installation the pipe system in order to achieve optimal thermal efficiency, to reduce installation costs and specially the cost of fuel during the operation; examples of software optimization of calculation of the budget system, showing the optimal position and distribution of the pipes in the area and the possibilities for cooling through the embedded pipes.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

18,00-19,30 The City of Zagreb - Final of the project “CIVITAS ELAN”

Mobility and transport are of great importance for the development of the large cities, but also, use of the alternative ways and methods of transportation, including public transport, bicycle and pedestrian traffic is the basic part of the Plans of sustainable transport, important part of the Regional plan of the city.

The European project **CIVITAS ELAN** has to improve the quality of life of citizens by establishment of better solutions in urban traffic and by promoting and encouraging the sustainable, clean and energy efficient ways of traffic.

The project is being held under the motto “Citizens for the white City of Zagreb!” from September, 15th 2008 till September 15th 2012 and is being organized by 7 partners: the City of Zagreb-City Office for Strategic Planning and Development, Zagreb Holding d.o.o.-affiliates ZET and Cistoca, Faculty of Traffic Engineering, HZ Infrastructure, associations BICIKL and ODRAZ-Sustainable Community Development

Location: ZG Forum, Ljudevita gaja 27, Zagreb

16,00-19,00 Days of Open Doors – Energy Institute Hrvoje Požar

Energy Institute Hrvoje Požar is opening its doors for specialized visits of groups of students, professional associations and citizens. The visitors will be presented the development and new technologies application possibilities, new solutions in energy production by using renewable energy sources and will get familiar with the reconstruction of the existing business facility with which high energy standards have been achieved.

Location: Energy Institute Hrvoje Požar – Zagreb, Savska cesta 163

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WEDNESDAY, 16th May 2012

08:00-18:00 High Schools: „ A Lesson about *Climate and Energy!*“

In all high schools of the City of Zagreb there will be a lesson held for all first-grade pupils discussing the significance of energy savings, rational energy using, fight against global warming and adjustment to the climate changes caused by direct action of man and his influence on using the natural energy resources.

Location: High schools of the City of Zagreb (67 locations)

08,00 – 20,00 *Presentation of the ecological vehicles on the Ban Josip Jelacic Square*

On the **Ban Josip Jelacic Square** will be presented new electrical and environmentally friendly vehicles to inform the citizens of the City of Zagreb about development of new technologies considering ecological vehicles and ecological driving in order to reduce greenhouse gas emissions and human and traffic influence on the environment.

Location: The Ban Josip Jelacic Square - Zagreb

09,00 – 14,00 *An international conference „Local and Regional Authorities in the Process of Sustainable Energy Development“*

Application of the guidelines and directives of the EU, new legislations of the Republic of Croatia, new technologies and development strategies provides energy and financial savings, economic development and jobs, reducing global warming, greenhouse gas emissions, detrimental effect on human health and environmental, improving the quality of life and overall social welfare.

Urban environment is important factor in the process of sustainable development which association and synergistic action at local and regional level can contribute to the achievement of expected results. At the conference will be presented new initiatives and amendments to legislation, possibilities of economic development, role of local and regional governments in the process of sustainable energy development of the Republic of Croatia, development of a Covenant of Mayors network and Eurocities association, cooperation of Croatian cities and energy agencies in the overall aim of professional assistance, exchange of experience and knowledge in the implementation of sustainable energy development and fulfillment of the obligations of local and regional government in the Republic of Croatia, examples of good practice of European and Croatian cities, encourage the development of partnerships at the international level, participation in the European projects, use of European funds and development of new technological solutions in the Republic of Croatia.

Location: Old City Hall - Ćirilometodska 5, Zagreb (hall A)

For more information and registration : vlaska.samarinec@zagreb.hr

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08,00 – 16,00 Seminar: „Technical Regulations in the Field of Energy Efficiency, Thermal and Sound Protection“

Society of Construction Engineers of the City of Zagreb will organize seminar on which they will present an overview of European and national regulations considering energy efficiency, thermal and sound protection, energy certification of the buildings and heating and cooling; use of a computer program for energy certification of the buildings and also principles of designing buildings and their parts in terms of energy efficiency, thermal and sound protection and technical systems with alternative sources of energy.

Location: Society of Construction Engineers of the City of Zagreb, Berislaviceva 6, Zagreb

10,00 – 12,30 Presentations: „LED lighting and intelligent control systems“ and „Photovoltaic systems“

Companies „Piraex“ and „Nabla Slovenija“ will present development of LED lighting (what are the technical characteristics, advantages and disadvantages of LED lighting compared to ordinary lighting), use of LED, measurement of energy and also management systems with sensor and central control components. Other presentation will deal with development of photovoltaic systems, components of photovoltaic systems, the profitability of PV in Croatia and review of photovoltaic power plants built in Croatia.

Location: City of Zagreb Tribune, Kaptol 27

14,00 – 16,00 „Telektra“: „Energy-efficient Lighting- Large Potential Savings in Public Buildings“

The purpose of energy-efficient installations and comfortable and ergonomic space solutions lies in the selection of quality tools to find the optimal solutions. „Telektra“ company will present brief review of the interior lighting design, with an emphasis on energy efficiency using modern and the most efficient technologies, including modern and the most efficient light sources, ballasts, lighting control systems and design of artificial lighting with optimal use of natural day light.

Location: City of Zagreb Tribune, Kaptol 27

10,00 – 18,00 Days of Open Door - HEP ESCO

HEP ESCO company will provide expert visits for representatives of craftsmen and businessmen, representatives of local government, groups of pupils, students, associations and citizens in order to present possibilities of using ESCO financing model for implementation of energy efficiency projects.

Location: Humboldtova 4, Zagreb

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17,30 – 19,00 Presentation: „Energy Efficiency in the Management of Buildings“

„Zagreb Holding – City Residential Utility Services Department“ will present the process of energy audit, energy certification and issuance of measures to improve the energy performance of buildings – all in order we efficiently use the energy, have a better life and pay less. **UNDP** and **Energy Institute Hrvoje Požar** will give some additional information about energy management, rationalization of energy consumption and energy costs.

Location: Great Hall of the House of Journalists, Perkovceva 2, Zagreb

THURSDAY, 17th May 2012

**09,00 – 16,00 VIII. Symposium organized by Green building committee in Croatia:
„Construction materials and technologies inside Green building“**

Green building committee in Croatia is organizing symposium for defined target groups. Composed from the architecture and construction field with participation of professional lecturer from the academic, business and public branch. Additionally, experts from well known companies about construction, manufacture of materials and technologies directed at energy efficiency, sustainable development and green building will also participate.

Location: Old City Hall - Ćirilometodska 5, Zagreb (hall A)

For more information and registration : jelena.filipovic@gbccroatia.org

10,00 – 13,00 Seminar HGK: „Energy Efficiency in Industry“

In the organization of **Croatian Chamber of Economy** there will be seminar held dealing with energy efficiency in industry, methods for determining energy efficiency, the importance of measuring the implementation of energy efficiency in building sector, advantages and disadvantages of LED lighting as public lighting and also with implementation of their EU project.

Location: Croatian Chamber of Economy – Chamber of City of Zagreb - Draskoviceva 45, Zagreb

09,30 – 10,30 Presentation: “ Sustainable, Clean and Energy Efficient Ways in Urban Transport”

City Office for Strategic Planning and Development, civil association **“ODRAZ - Croatian abbreviation for Sustaining Community Development”** and **Faculty of Traffic Engineering** will present their achievements in urban transport through the **“TRAILBLAZER “** and **“CIVITAS ELAN”** projects that are aiming to improve quality of life in the city by promoting and encouraging sustainable, clean and energy efficient ways of transport, especially finding more efficient solutions in urban transport , and also to make more efficient supply and delivery plans that can reduce energy consumption in urban freight transport and that can also reduce the total costs by higher efficiency.

Location: City of Zagreb Tribune, Kaptol 27

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10,00 – 15,00 Seminar: „The Strengthening of the Network of Energy Efficient Capital Cities in South East Europe”

The City of Zagreb through the City Office for Energy, Environment and Sustainable Development within the project „The Strengthening of the Network of Energy Efficient Capital Cities in South East Europe” together with ORF-GIZ and the City of Freiburg, will organize workshop for the representatives of the capital cities Sarajevo, Podgorica, Skopje and Tirana in order to implement measures and activities of SEAP and use of EU funds.

Location: The City Office of Energy, Environment and Sustainable Development, Dukljaninova 3, Zagreb

11,00-14,00 „RAZA –TPZ“ Tribune: „Renewable Energy Sources and Environmental Protection in Innovative Entrepreneurship”

Development Agency of the City of Zagreb - TPZ with their associates will present an entrepreneurial experience in developing products and services in the field of renewable energy sources, energy efficiency and environmental protection, as a base of competitiveness in the global market.

Location: City of Zagreb Tribune, Kaptol 27

14,00-15,00 Presentation: “New EU Energy Labeling of Household Appliances”

In Croatia and EU there is a new Regulation on energy labeling of household appliances. Within the introduction of new ways of labeling there’s been project launched called “Come on Labels”. “Elma-Kurtalj” company will present general improvement of energy efficiency of household appliances, review of European and national legislative guidelines, presence status indicator in the shops, correct information on labels and improvement of energy efficiency in our homes and environmental protection.

Location: City of Zagreb Tribune, Kaptol 27

15,00-18,00 Days of Open Doors - “Photovoltaic Systems on the Government Buildings of the City of Zagreb and Economic Subjects”- Stjepan Radic Square 1 and Petrokov, Mrksina 52

The City administration of the City of Zagreb and “Petrokov” company will provide expert visits for groups of pupils, students, associations and citizens. They will present photovoltaic power plant with total power of 28.80W and 400kW on the roof of the City administration building and “Petrokov” company.

Location: The City Administration of the City of Zagreb, Stjepan Radic Square 1, Zagreb “Petrokov” , Mrksina 52, Zagreb

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FRIDAY, 18th May 2012

09,00 – 10,00 Presentation HEP ESCO: „Energy Efficiency Projects“

„HEP ESCO“ will present their energy efficient projects which includes modernization, reconstruction and renovation of existing plants and facilities in the building sector, public lighting sector, industry sector and energy supply system. They will also present so far completed HEP ESCO projects.

Location: City of Zagreb Tribune, Kaptol 27

10,00 – 12,00 „HAK“ Round Table : „Safe and Energy Efficient Urban Mobility for Sustainable Development of the Cities“

Croatian autoclub will present to their members and citizens models of safe and energy efficient urban mobility that contribute to sustainable development of the city. Basis for developing sustainable, safe and energy efficient urban mobility, introduction of environmentally friendly vehicles and fuels for public transport, intensive promotion/education of an environmentally friendly way of using the vehicles-eco driving and also promoting new concepts of urban mobility.

Location: Croatian Autoclub, Avenija Dubrovnika 44, Zagreb

11,00 – 12,0 „ECO3ENERGY“ Presentation: „Photovoltaic Systems for Better Future“

„ECO3ENERGY“ company will present the process of implementation of photovoltaic projects through the example of the best project declared in Slovakia- photovoltaic power plants with total power of 800kW near Bratislava.

Location: The Zagreb City Tribune, Kaptol 27

14,00 – 17,00 Seminar: „New Energy Nearly-Zero Buildings and Restoration to a Factor 10“ - part I.

Lecturers from the **Faculty of Architecture** of the City of Zagreb, together with lecturers from other faculties, institutions, companies, associations, student-associations and publishers of professional journals and representatives of the portals will organize two-days workshop dealing with energy efficiency in new buildings and restoration to a “factor 10”.

Location: The Zagreb City Tribune, Kaptol 27

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10,00 – 18,00 Days of Open Doors – „Croatian Professional Society for Solar Energy“

“Solar house – Spansko“ is opening their door for specialized visits of student groups, specialized associations and citizens. There will be presented the development and application possibilities for new technologies and new solutions in energy production using renewable energy sources through the good example of individual family house.

Location: Solar House Spansko – Zagreb, J. Kavanjina 14

SATURDAY, 19th May 2012

09,00-20,00 Exhibitions of companies, entrepreneurs, professional associations, ECO kindergartens and ECO schools

As the central event of the Zagreb Energy Week, at the Trg bana Jelačića (Ban Jelacic Square) an exhibition of companies, entrepreneurs, professional associations, ECO kindergartens and ECO schools of the city of Zagreb, which are active in the field of applying measures of energy efficiency and renewable energy sources, will take place. The exhibitors will present their products and services at the stands, show their exhibits and communicate directly with citizens.

Location: Ban Jelačić Square – Zagreb

10,00-14,00 Seminar : „New Energy Nearly - Zero Bulidings and Restoration to a Factor 10” - part II.

Lecturers from the **Faculty of Architecture** of the City of Zagreb , together with lecturers of from other faculties, institutions, companies, associations, student-associations and publishers of professional journals and representatives of the portals will organize two-days seminar dealing with energy efficiency in new buildings and restoration to a “factor 10”.

Location: The Zagreb City Tribune, Kaptol 27

14,00 – 17,00 HUEC: „Implementation of the Building certification and green-build certification models ”

At the round table we will give you a short insight into the actual implantation of law mandated energy efficient certification of buildings in the Republic of Croatia while demonstrating the advantages of higher energy standards. We shall also discuss the different models of the certificates in green building in the world and the possibilities of implementing such models in Republic of Croatia along with the advantages they present.

Does the energy efficiency certificate of a building show transparent information about the power consumption and can it in fact contribute in recognizing the energy efficiency in green construction? An emerging market of new nearly zero power consumption EE buildings along with the modernization of a sector of all already existing structures singling out what part of the building is the greatest consumer of energy. What does all of this mean and what could be an integral approach to planning\engineering and constructing are some of the topics we will discuss at the round table.

Location: City of Zagreb Tribune - Zagreb, Kaptol 27