

ZAGREB ENERGY WEEK
Zagreb, May 13. – 18, 2013.



Zagrebački energetska tjedan

13.-18. svibnja 2013

GRAD ZAGREB

Covenant of Mayors
Committed to local sustainable energy

REGIONALNA ENERGETSKA AGENCIJA
SUSTOPROJEKATNE UDRUŽENJE

15. lipanj **EE INFO DAN**
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RAZVOJ NE ŽELIMO ZAUSTAVITI ALI ONEČIŠĆENJE MOŽEMO!



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MONDAY, May 13, 2013.

08,50 – 18,15 Lecture „Basic KNX module“

As part of the project „Modernization of school curricula in vocational schools in accordance with the shifting needs of job/economy market Energy efficiency – KNX module“, conducted by the **Electromechanical Vocational school** with their partners **Technical School of Civil-Engineering, Vocational school Sisak** and the **City Office for Education, Culture and Sports**, educated teachers and lecturers from Zagreb vocational schools will hold lectures on the basic KNX module and energy efficiency for pupils in the City of Zagreb vocational schools. The target group includes third grades of vocational schools and second grades of trade schools.

Location: Technical School of Civil-Engineering, Većeslava Holjevca 17, Zagreb

09,00 – 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 everybody, even the youngest among us, can contribute to the rational energy use, prevention of global warming and to environment protection. Through playing, discussions, drawing, coloring, creating breadboard models of windmills and other activities all kindergartens in the City of Zagreb area will actively participate in the Zagreb Energy Week program.

Location: Zagreb kindergartens (206 locations)

9,00 – 18,00 International conference: „Energy. Development. Democracy. A successful approach for a new energy future of Southeast Europe“

The second international conference will be held in the organization of the **Society for sustainable development (DOOR)** and the **Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)**. The conference is part of a regional initiative conducted by the Network of schools for political studies in Southeast Europe (acting under the auspices of the Council of Europe) within the frame of the Open Regional Fund – Energy Efficiency (ORF-EE) in the name of the German Federal Ministry for economic cooperation and development (BMZ). The conference will gather the representatives of the Energy Community, the German Parliament and national parliaments of Southeastern Europe as well as high ranking government officials, experts in the field of energy efficiency, investors, donors, representatives of media and local self-government, business sector and civil society organizations. The aim of the regional conference is sharing information and ideas, planning and shaping the political actions necessary for facing the increase of global and regional issues of environment

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protection as well as setting the basis for the development and implementation of sustainable energy policies.

Location: hotel The Westin, Izidora Kršjavg 1, Zagreb

09,30 – 17,00 Expert seminar „Energy NCP Mentoring“

As part of the C-ENERGY plus project (FP7 program), the Agency for Mobility and EU programs is organizing an expert seminar for national contact persons in the field of energy and environment within the scope of the FP7 program.

Location: Agency for Mobility and EU programs, Ljudevita Gaja 22, Zagreb

11,00 – 15,00 Zagreb University – Expert forum – „We have the solutions – visions of new generations for the green development“

Students of the **Faculty of Electrical Engineering and Computing, Faculty of Mechanical Engineering and Naval Architecture, Faculty of Architecture, Faculty of Civil Engineering and Faculty of Forestry** will present their scientific projects and seminars on the application of new technologies in the field of energy efficiency and renewable energy sources.

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

11,00 – 13,00 Presentation „Employment through new energy“

Association for Civil Society will present the topic of New energy and energy policy which is based on using the local sources of primary energy which, in small plants, serve for the production of all kinds of useful energy in an efficient manner, also considering the protection of the environment and the development of own industry. The main target of the New energy is employment based on own resources which Croatia disposes of. The presentation shall demonstrate the possibilities of employment in each of them, using the presentations made on the topic of opening new „green jobs“.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

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14,00 – 15,30 Presentation „Increase of solar power plant production by as much as 25% - SolarEdge technology“

The Mobis solar company shall present a solution which increases the security of the photovoltaic system, allows for a greater production of electric energy thereby allowing for a shorter return-on-investment period and a maximum use of sunlight. The SolarEdge technology of production optimizers in combination with the reliable SolarEdge invertors and quality modules per investor's choice makes for the best solution for small plants on family houses, but also in case of larger plants on industry halls, shopping centres etc.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

14,00 – 16,00 Open door days at the Faculty of Mechanical Engineering and Naval Architecture

The Faculty of Mechanical Engineering and Naval Architecture shall open the door of its laboratories for renewable sources of energy to expert visits by representatives of crafts and entrepreneurs, representatives of local self-government units, groups of pupils, students, expert associations and citizens. The visitors shall be able to see, on actual test systems, the work of the geothermal heat pump with heat inverter (100 m depth), solar photovoltaic and collector systems, a small wind power plant as well as the operation of the biomass boiler. The visit to laboratories will be preceded by presentations of the said technologies in the faculty classrooms.

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

TUESDAY, May 14, 2013.

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

All first grades of Zagreb elementary schools will hold classes entitled „Tell me about energy“ and the teachers will, by means of a picture book and an educational game, teach the children about the need and manner of saving energy, energy efficiency and renewable energy sources. Furthermore, the elementary school pupils will, through discussions on this topic, express their own ideas, activities, drawings and essays on how they think energy can be rationally used and saved.

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

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08,50 – 18,15 Lecture „Basic KNX module“

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Location: Technical School of Civil-Engineering, Većeslava Holjevcica 17, Zagreb

09,00 – 15,00 Croatian Chamber of Architects Day: *“Development we don’t want to stop, but pollution we can!”*

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

The members of the **Croatian Chamber of Architects**, in cooperation with the **Society of Architects Zagreb and the Croatian Architects' Association** will present the modern energy concepts in architecture that concern new construction and reconstruction of energy facilities in terms of economic viability.

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

09,30 – 17,00 Expert seminar „Energy NCP Mentoring“

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Location: Agency for Mobility and EU programs, Ljudevita Gaja 22, Zagreb

12,00 – 17,00 Technical Museum: Opening of the exhibition: *„Renewable energy sources and energy efficiency“*

The Technical museum of the City of Zagreb shall open the permanent exhibition and educational center in the Museum, entitled „Renewable energy sources and energy efficiency“. The exhibition comprises three sections: the library (several hundred publications concerning renewable energy

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sources and energy efficiency), a space with two large tables and seats as well as exhibition of hybrids, biomass and biofuels, the wind, the sun (photovoltaic and hot water systems), heat pumps (substitute for geothermal), water, energy efficiency in building, home appliances and lighting.

Location: Technical Museum, Savska cesta 18, Zagreb

13,00 – 15,00 Seminar – „Energy efficiency in building“

The Chamber of Trades and Crafts and the Association of Craftsmen of the City of Zagreb shall hold, for their members and other interested craftsmen and entrepreneurs, expert presentations concerning the new possibilities of development for the crafts and small entrepreneurship sector in the field of energy efficiency and renewable energy sources as well as adaptation of business to new market conditions.

Location: City of Zagreb Chamber of Trades and Crafts, Ilica 49/1, Zagreb

10,00 – 12,00 Presentation „Implementation of the LPG device in diesel engines“

The company „Autocentar Kutina“ shall present a way to implement the LPG device into diesel engines. Due to its characteristics and advantages, the LPG is fast becoming one of the leading fuels today. The Liquefied petroleum gas (LPG) pollutes the environment less than the leading alternative fuel today, which makes it a desirable energy source.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

13,00 – 14,00 Presentation: „Energy of the wind and wind power plants“

In its presentation, the company **Vivo Somnia d.o.o.** will discuss the advantages of using the energy of wind as well as the way in which the wind power plants help the economy and increase of employment. They shall also present some interesting information on large wind power plants and small wind turbines.

Location: The Zagreb City Tribune, Kaptol 27, Zagreb

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09,00 – 18,00 Open Door days: *Faculty of Electrical Engineering and Computing*

The **Faculty of Electrical Engineering and Computing** shall open its door for visiting groups of pupils, students, expert associations and citizens. The visitors shall be informed on the topics concerning the measurement of energy and water consumption in buildings, the impact of distributed – renewable sources on voltage quality, a round table on the topic of energy efficiency in Croatia as well as allowed to visit to some laboratories and the exhibition of paintings “Energetičari umjetnici” (Artists in energy).

Location: Faculty of Electrical Engineering and Computing, Unska 3, Zagreb

WEDNESDAY, May 15, 2013.

08,00 – 18,00 Secondary schools: *A lesson about Climate and Energy*

All City of Zagreb **secondary schools** will hold a lesson in first grades concerning the need for energy savings, rational use of energy, fight against global warming and adaptation to climate change caused by the actions of man and man's influence on the use of natural energy sources.

Location: City of Zagreb secondary schools (67 locations)

08,50 – 18,15 Lecture „Basic KNX module“

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Location: Technical School of Civil-Engineering, Većeslava Holjevca 17, Zagreb

09,00 -13,00 International conference– „*Together for a green, energy sustainable Europe!*“

The application of European Union guidelines and directives, new legal regulations of the Republic of Croatia, new technologies and development strategies allow for energy and financial savings,

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economic development and new jobs, reduction of global warming and of greenhouse gas emission, the detrimental impact on the environment and people's health, improvement of the quality of life and overall civil wellbeing.

The conference shall present new initiatives, amendments and modifications to the regulations, possibilities of economic development, the role of regional and local self-government in the process of energy efficient development in the Republic of Croatia, the development of the Covenant of Mayors network and the Eurocities association, cooperation between Croatian cities and energy agencies in the aim of providing expert support, exchange of experience and knowledge in the field of the implementation of the energy sustainable development program and fulfilling the obligations of the local and regional self-government units in the Republic of Croatia, examples of good practice in European and Croatian cities, encouragement of international partnerships, participating in European projects, use of assets from the European funds and the development of new technological solutions in the Republic of Croatia.

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

08,45 – 17,30 Expert seminar „Energy training in the field of energy and environment as part of the FP7 program for new national contact persons from the Balkan region“

As part of the C-ENERGY plus project (FP7 program), the **Agency for Mobility and EU programs** is organizing an expert seminar in the field of energy and environment within the scope of the FP7 program. The education is intended for national contact persons from Croatia, Montenegro, Serbia, the former Yugoslav Republic of Macedonia and Turkey.

Location: Agency for Mobility and EU programs, Ljudevita Gaja 22, Zagreb

15,00 – 16,00 Public lecture - „AWMR – Advanced wireless network for long distance automatic water meter readings and payment for water in the City of Zagreb

Zagreb holding, Water supply and drainage branch will present a new, advanced system for water meter readings and automated water payment. This system of smart meters, i.e. the new AWMR network (automatic water-meter reading) is especially important for building because of setting up a new system for water payments according to the automatic reading of the actual consumption. The current system is mainly based on assessments and calculation of consumption according to the number of tenants. It is expected that the introduction of the new AWMR system will reduce the water consumption in apartments by 40%, which would significantly contribute to an increase of energy efficiency of buildings and also to the satisfaction of water consumers. The development of

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the AMWR network is aimed at the development of a unique and complete smart grid which will, in the future, be indispensable for the functioning of an efficient smart city.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

13,00 – 17,00 Open door days *Mobis solar Showroom*

The „**Mobis solar**“ company shall open the door of its recently restored exhibition space to visiting groups of students, pupils, expert associations and citizens. The visitors shall be able to see the solar technology and LED lighting for interior and exterior spaces.

Location: Mobis solar Showroom, Radnička 75, Zagreb

17,00 – 19,00 Open door days, *HEP ESCO*

„**HEP ESCO**“ will present energy efficiency projects that include modernization, reconstruction and renovation of the existing plants and objects in the sectors of building, public lighting, industry and energy supply. It shall also present the HEP ESCO projects that have been undertaken up-to-date.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

THURSDAY, May 16, 2013.

08,00 – 11,00 Croatian Covenant of Mayors Club and Network of energy efficient capital cities in Southeast Europe: „*Cooperation and networking of cities – a significant resource of information and knowledge*“

Exchange of experience and cooperation in realization of joint projects for energy sustainable development at local and regional level are the topics of the expert meeting for the members of **Croatian Covenant of Mayors Club and Network of energy efficient capital cities in Southeast Europe**, other signatories of the Covenant of Mayors and cities and municipalities in the Republic of Croatia and wider region who wish to contribute to the realization of targets set by EU policies.

Location: Old City Hall – Ćirilometodska 5, Zagreb - Hall C

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Location: Agency for Mobility and EU programs, Ljudevita Gaja 22, Zagreb

08,50 – 18,15 Lecture „Basic KNX module“

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Location: Technical School of Civil-Engineering, Većeslava Holjevca 17, Zagreb

11,00 – 14,00 Seminar: „Together for sustainable development – 5 years with you“

In order to mark its fifth anniversary, the North-west Croatia Regional Energy Agency will organize a seminar of Croatian energy agencies.

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

9,00 – 14,00 Seminar – „Energy in the development of the Republic of Croatia“

The Croatian Chamber of Mechanical Engineers and the Croatian Chamber of Electrical Engineers shall present the projects in the Republic of Croatia which contribute to reaching the targets 20/20/20. The members of the Croatian Chamber of Mechanical Engineers, in cooperation with the Croatian Chamber of Electrical Engineers, shall present the realized projects and the ones still in the design phase whose realization is expected prior to the year 2020. The projects shall demonstrate

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how the engineering profession contributes to the Croatian policy of development through the following segments: compliance of energetics with the energy policy of the EU, supply with energy sources, economic and industrial development, protection of the environment and reduction of greenhouse gas emissions.

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

10,00 – 12,00 ECO 3 ENERGY, s.r.o. – „Photovoltaic inverters Fronius and their use in photovoltaic plants“

The company „ECO 3 ENERGY“ will present the basis of photovoltaic systems, photovoltaic inverter Fronius and its use in photovoltaic plants with the example of using the inverters in solar power plants – rooftop solar power plant, 500 kW in Senica, Slovakia.

Location: City of Zagreb Tribune, Kaptol 27, Zagreb

13,00 – 17,00 Open door days Mobis solar Showroom

The „Mobis solar“ company shall open the door of its recently restored exhibition space to visiting groups of students, pupils, expert associations and citizens. The visitors shall be able to see the solar technology and LED lighting for interior and exterior spaces.

Location: Mobis solar Showroom, Radnička 75, Zagreb

14,00 – 20,00 Faculty of Architecture seminar: „Energy restoration and European projects“

The lecturers from the **Faculty of Architecture** and **Faculty of Civil Engineering** as well as guest lecturers from abroad will present the projects and achievements from the field of the most advanced energy efficient architectural, construction and installation technology. Two European projects that are currently underway in Croatia will also be presented: ECO-SANDWICH - Energy Efficient, Recycled. Concrete Sandwich Facade Panel (EU program *Eco-innovation*) and the CROSKILLS project - Energy training for the building sector (EU program *Build up skills* and *Intelligent Energy Europe*).

Location: Faculty of Architecture, Kačićeva 26, Zagreb

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15,00 – 17,00 Expert seminar: „EU projects for energy sustainable development of cities“

Financing measures for energy sustainable development of cities is one of the challenges every local administration is faced with. Using EU funds through the IEE and ICT PSP programs can significantly improve the implementation of energy programs and plans. The advantages of using the said programs will be presented through the projects LEAP (The Leadership for Energy Action and Planning), PassREg (Passive House and Renewable Energy Regions), i-SCOPE (interoperable Smart City services through Open Platform for urban Ecosystems), ...

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

16,00 – 19,00 Open door day: *Energy Institute Hrvoje Pořar*

The Energy Institute Hrvoje Pořar shall open its door to expert visits by groups of pupils, students, expert associations and citizens. The visitors shall be informed of the development and the possibilities of application of new technologies, new solutions concerning energy production through the use of renewable energy sources. They shall also be informed of the reconstruction of the existing business object which allowed for reaching high energy standards.

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

19,00 – 21,00 Presentation of the annual awards for the development of Croatian green economy GREENOVATION 2013 and the annual meeting of the GREEN MARK holders

Association for Energetics for Zagreb will present awards in 10 categories: Croatian green economy-best program, Croatian green economy-best start-up; Croatian green economy – best service; Croatian green economy-best product; Croatian green economy-best technology; Croatian green economy – best marketing campaign; Croatian green economy – best web program; Croatian green economy – best manager; Croatian green economy – best journalist; Croatian green economy – best team.

Location: Double Tree by Hilton, Ulica grada Vukovara 269a, Zagreb

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FRIDAY, May 17, 2013.

08,50 – 18,15 Lecture „Basic KNX module“

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Location: Technical School of Civil-Engineering, Većeslava Holjevcica 17, Zagreb

09,00 – 15,00 XIII. Symposium: “Green aspect of urban planning”

Green building committee in Croatia shall present the participants of the symposium with the values of implementing the green building concept in the process of planning urban construction in the future. The symposium is aimed at all participants in the process of creating new buildings or reconstructing the existing ones and their compliance with the natural surroundings and the existing urban values of a city, i.e. representatives of city authorities, experts from most Ministries and relevant institutions, members of professional chambers, building managers, representatives of the banking sector, supporters of green approach to all that surrounds us – in short, all those who wish to make urban zones more efficient and pleasant for life and work.

Urban spaces are becoming ever more demanding for life due to the growing population and construction, problems in infrastructure, transport, electricity and unused brownfield localities. As a new and the only acceptable manner of planning, designing and undertaking construction works, use and managing buildings as also to a great number of energy consumers and consumers of all other natural resources, green building represents a positive answer and a hope that in the future, urban zones will become green oases, suitable for the life and work of its occupants. The application of international green building standards (LEED, BREEAM or DGNB) shall contribute to a greater quality, value and endurance of buildings surrounding us as well as ensure the preservation of natural surroundings.

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

10,00 -13,00 Seminar – „Renewable sources, energy efficiency and environment protection“

The **Croatian chamber of economy** shall hold a seminar promoting the producers of renewable energy sources equipment and companies in the field of environment protection.

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Location: Croatian Chamber of Economy – Chamber of City of Zagreb – Draškovićeva 45, Zagreb

10,00 – 12,00 Round table „Sustainable urban mobility“

The Croatian auto club will present to its members and citizens the models of safe and energy efficient urban mobility that contribute to the sustainable development of cities.

Location: Croatian Auto club, Avenija Dubrovnik 44, Zagreb

9,00 – 20,00 Open door days: Croatian Professional Society for Solar Energy

The Solar House in Špansko shall open its door to the visiting groups of pupils, students, expert associations and citizens. The visitors shall be informed of the development and the possibilities of new technologies application as well as new solutions of the system for the production of electric energy and hot water through the use of renewable energy sources using the example of an individual family object.

Location: Croatian Professional Society for Solar Energy, J. Kavanjina 14, Zagreb

13,00 – 17,00 Open door days Mobis solar Showroom

The „**Mobis solar**“ company shall open the door of its recently restored exhibition space to visiting groups of students, pupils, expert associations and citizens. The visitors shall be able to see the solar technology and LED lighting for interior and exterior spaces.

Location: Mobis solar Showroom, Radnička 75, Zagreb

09,00 - 17,00 Open door days: Photovoltaic Systems on the City Administration buildings and Economic Subjects

The City of Zagreb, City Administration and economic subjects shall open their door to the visiting groups of pupils, students, expert associations and citizens. The visitors shall be shown the photovoltaic and solar systems on the objects of the City administration building and economic subjects.

Location: City administration buildings , Zagreb

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SATURDAY, MAY 18, 2013.

10,00 – 14,00 Expert seminar: „Energy restoration up to Factor 10 and renewable energy sources“

Lecturers from the Faculty of Architecture, in cooperation with colleagues from other faculties, City Offices and other institutions, expert associations, student associations, companies, expert magazines publishers shall organize an expert seminar concerning advanced energy efficiency (nearly zero energy building) and the restoration of buildings up to „factor 10“ as well as renewable energy sources.

Location: The Zagreb City Tribune, Kaptol 27

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