

environmental protection – will be held at the Main City Square. The exhibitors shall present their products and services at the provided stands, showcase their products and communicate directly with the citizens.

Also, in cooperation with the Croatian Association for Solar Energy and under the motto “Sustainable Traffic of the City of Zagreb for Future Generations - Electric Vehicles”, we will especially turn the attention to the possibility of reducing the city pollution through the use of electric vehicles.

Location: City of Zagreb, Main City Square

09,00 – 15,30 - GREEN TALKS symposium „nZEB & BIM – how to achieve sustainable construction?”

In cooperation with the faculty of Civil Engineering, the Croatian Green Building Council shall organize a GREEN TALKS symposium on the topic „nZEB & BIM – how to achieve sustainable construction?” The symposium will be held on May 16, 2019 in the Zagreb Innovation Centre – ZICER.

In cooperation with its members and partners, the Croatian Green Building Council has for 10 years been actively promoting sustainable construction in Croatia. Finally, one part of what is being promoted has been legally regulated through nZEB - almost zero energy consumption buildings. The topics to be covered, apart from clarifying the notion and criteria of the nZEB, are: possibilities of financing energy recovery from EU funds, completed and planned energy refurbishment projects, possibilities of improvement and barriers we face. An additional topic to be highlighted is the BIM (Building Information Modeling). The symposium will show the newly developed approaches to education of architects, engineers and workers according to the Fit-to-nZEB program and will provide the symposium with an insight into how BIM is implemented in the field of energy efficiency (nZEB) through Net-UBIEP, BIMzeED and BIMCert, but also how BIM is currently being used in practice in Croatia and Austria, and will highlight the positive side of BIM but also the challenges that still exist. GREEN TALKS is FREE for all participants with a completed registration form and is mostly intended for architects, project planners and civil engineers, electrical engineers, mechanical engineers, energy efficiency experts, conservators and other interested members of general public.

Location: Zagreb Innovation Center - ZICER, Zagreb Fair Pavillion 12, 1st floor, Zagreb

11,00 – 15,00 - Conference „Accumulator batteries - New Business Opportunities“

The Croatian Chamber of Economy shall organize the conference „Accumulator batteries - New Business Opportunities“ which will showcase the topic of storing electrical energy, accumulator batteries and the possibilities of launching their production in the Republic of Croatia.

Location: Croatian Chamber of Economy, Zagreb Chamber, Draškovićeva 45/I, Zagreb

12,00 – 14,00 - Open door days - HEP ESCO

HEP ESCO d.o.o., the company included in the HEP group for for the distribution of services in energy, is developing, implementing and financing energy efficiency and renewable energy sources projects. The Open door day will be a chance for the HEP ESCO experts to present their services that include the development, implementation and financing of projects so that investment refund is obtained through savings in energy and maintenance costs.

Location: Hrvatska elektroprivreda d.d., Ulica grada Vukovara 37 (VII. floor), Zagreb

13,00 – 15,00 - Open door days and RES 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 a new examination system with geothermal heat pump that is used for cooling and heating of two classrooms, solar photovoltaic and collector systems, a small wind power plant, fuel cells and hydrogen production as an alternative fuel using renewable energy and the operation of the biomass boiler. The visit to laboratories will be preceded by presentations of the said technologies in the faculty Great Hall.

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

FRIDAY, May 17, 2019.

09,00 – 18,00 - Open door days: Croatian Professional Society for Solar Energy (HSUSE)

The Solar House in Špansko shall open its door to the visiting groups of pupils, students, expert associations and citizens. Visitors shall be presented with the possibility of obtaining and saving energy using new technologies for converting solar energy into electrical and thermal energy. A specific project will show the application and actual results of measuring energy savings through energy efficiency and the use of solar systems. All measurement results can be seen on the large panel (display) located in front of the solar roof of Špansko - Zagreb and the headquarters of the Croatian Association of Solar Energy. This provides support for sustainable energy policy and suppresses the consequences of climate change and adaptation to these changes.

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

09,00 – 14,00 - Seminar of the Croatian chamber of mechanical engineers and the Croatian chamber of electrical engineers

The members of the Croatian chamber of mechanical engineers and the Croatian chamber of electrical engineers shall present new technologies in the application of conventional and renewable sources of energy.

Location: Zagreb Innovation Center - ZICER, Zagreb Fair Pavillion 12, 1st floor, Zagreb

10,00 – 16,00 - Open door day – Energy at the Faculty of Electrical Engineering and Computing

The Faculty of Electrical Engineering and Computing of the University of Zagreb opens its doors for expert visits of interested experts and scientists from the field of energy and wider and groups of pupils, students, professional associations and citizens who will have the opportunity to become acquainted with current scientific research projects that are fully or partially managed by the members of the Institute for High Voltage and Energy. This year will also feature a Round table discussion with participation of representatives of various social, economic and technical fields.

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

SATURDAY, May 18, 2019.

19,30 – 21,00 - Nikola Tesla EV Rally Croatia 2019.

For the sixth consecutive year, the company E.V.A. BLUE D.O.O. is organizing the world's most beautiful and quiet vehicle rally – the Nikola Tesla EV Rally Croatia 2019. Nikola Tesla EV Rally Croatia is the first rally of electric vehicles held in this part of Europe and the only one of this type in the world. The idea of a rally is to co-operate and integrate partners, cities and towns, tourist boards and related institutions in order to establish an electric vehicle infrastructure. Placement of fillers, promotion of green technologies and renewable energy sources, ecology and excellence. Electric vehicle filling stations shall be placed on the most attractive tourist locations (Rovinj, NP Paklenica, Smiljan, Poreč,...), while simultaneously setting up the “Green Electric Tourist Highway”. The Rally shall start on May 12, 2019 in Novi Vinodolski, and end on May 18 and 19, 2019 in Zagreb.

Location: Fountains at the Av. V. Holjevca – National And University Library – Trg Sv. Marka, Zagreb

SUNDAY May 19, 2019.

09,00 – 16,00 - Nikola Tesla EV Rally Croatia 2019.

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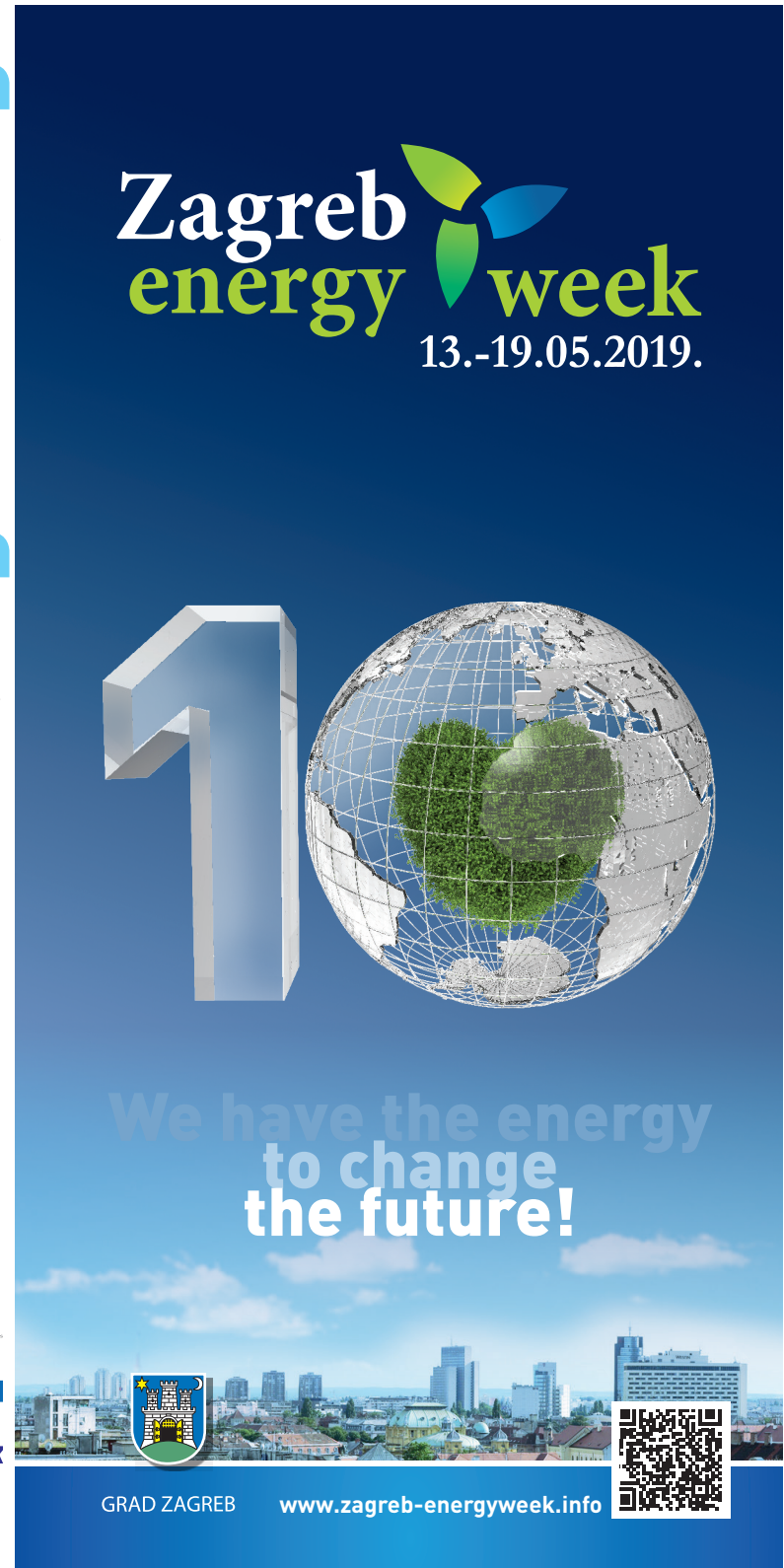
Location: Fountains at the Av. V. Holjevca – National And University Library – Trg Sv. Marka, Zagreb

Zagreb energy week

13.-19.05.2019.



We have the energy to change the future!





Dear citizens, distinguished guests of the City of Zagreb and esteemed participants of the Zagreb Energy Week,

it is a great honor and pleasure to welcome you to the traditional Zagreb Energy Week 2019, an event that is held with great success for the many years in a row.

The Zagreb Energy Week presents a complex mosaic of a whole range of activities with the aim of including all generations and stakeholders in a long-term fight against climate change. Our message "We have the energy to change the future!" calls upon joint action in implementing projects for sustainable urban development and the preservation of natural resources for future generations. The Zagreb Energy Week, which is to be held from May 13-19, 2019 contains in its rich program a number of international conferences, expert meetings, open door days, seminars, classes and workshops that deal with key subjects of energy and environment.

Today, the world is facing major and urgent issues such as global warming and climate change. Answers to these questions need to be identified through synergy on the national and local levels, by involving all concerned stakeholders and through active cooperation in the international arena. Rational use of energy, use of new green technologies and renewable energy sources are important tools and drivers of economic development, job creation and brighter prospects of our young generations.

The City of Zagreb Administration is determined to actively implement the measures of energy efficient development of the City of Zagreb and realize strong and successful cooperation with all of the relevant local and foreign subjects. The Energy Week provides a unique opportunity to the citizens of Zagreb, Croatia and the wider European region to learn more about the models and ways of achieving significant energy and financial savings, reducing greenhouse gas emissions and the harmful impact on the environment. Numerous activities of the Zagreb Energy Week aim to raise the environmental awareness of citizens and stakeholders concerning the need to protect the climate and the environment and use energy and natural resources in a rational manner.

By accepting the Covenant of Mayors and as a Supporting Structure of the European Commission-Directorate General for Energy, the City of Zagreb has confirmed its commitment towards an energy efficient city development. Through active involvement in European initiatives, the City supports and implements appropriate measures in the aim of rational use of energy, achieving energy and financial savings, implementation of energy efficiency measures, renewable energy and environmentally friendly fuels as well as provides help and support to local and regional communities that show interest for the said topics.

The ambitious goal of reducing the greenhouse gas emissions by more than 40% (in comparison with the reference year 1990.) by the year 2030., is only possible through an active inclusion and cooperation of numerous interest groups, economic subjects, educational and scientific institutions, non-governmental organizations and the citizens of as many as possible ecologically conscious cities. The City of Zagreb shall continue to aim at reaching the common EU goals as well as implement the EU policies and the energy-climate frame 2050 that leads to an energy more efficient, low carbon and more competitive market development, attracting new investments and providing a better life for the citizens. The Zagreb Energy Week plays an important role in achieving these goals and is one of the important factors in the process of the City of Zagreb sustainable urban development. It shows the high level of mutual understanding of numerous partners, as well as inclusion and cooperation of all participants in an effort to present the citizens and all guests of the Zagreb Energy Week with real problems, as well as possible solutions that ensure secure and better future.

Welcome to Zagreb – I wish you a successful and eventful 10th Zagreb Energy Week 2019!

Milan Bandić,

Mayor of the City of Zagreb

MONDAY May 13, 2019.

09,00 – 12,00 - 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)

09,00 – 14,00 - Zagreb University – Expert forum – „We have the solutions – visions of new generations for 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, Faculty of Mining, Geology and Petroleum Engineering, Faculty of Chemical Engineering and Technology and Faculty of Transport and Traffic** will present their scientific projects and seminars on the application of new technologies in the field of energy efficiency and renewable energy sources.

Location: Faculty of Civil Engineering, Kačićeva ul. 26, Zagreb

09,00 – 13,00 - Project TOGETHER – “Managing energy in our buildings“

The **City of Zagreb, City Office for Economy, Energy and Environment protection** will organize a local closing workshop “Managing energy in our buildings”, in view of presenting the results of the schools and kindergartens included in the project TOGETHER during the three years of its implementation.

Location: Zagreb Innovation Center - ZICER, Zagreb Fair Pavillion 12, 1st floor, Zagreb

10,30 – 12,30 - 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: Electromechanical Vocational school, Cabinet for renewable energy sources, Selska cesta 83, Zagreb

11,00 – 13,00 - Expert forum of the Croatian auto club

In cooperation with the Faculty of Transport and Traffic, auto clubs and other partners, the **Croatian auto club** shall present models and aspects of safe and energy efficient mobility and driving that contribute to sustainable city development.

Lokacija: Hrvatski autoklub, Avenija Dubrovnik 44, Zagreb

TUESDAY, May 14, 2019.

08,00 – 16,00 - Elementary Schools: Learning through playing 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)

09,00 – 17,00 - X. Green Day of the Croatian Chamber of Architects „In cooperation with nature“

Ever since we can remember, our lives have been linked to the planet Earth. We watched people go to the universe, walk on the moon, spend everlonger periods of time in space, but the joy of returning to the home planet has always been more than obvious. Futuristic concepts of conquering distant planets are tempting and create an appearance of the superiority of human race, but life for us is realistic only on the blue planet. Raising awareness of the environment is one of the key tasks of our generation and of those that will follow. Humans are the masters of Earth in every sense of the word. Everything we take must also be given back – only then is it possible to have balance on this planet. Preserving the environment includes different approaches - from proper waste management and recycling of everyday garbage through recycling building material - either by reusing the existing resources or by merely recycling construction waste - to careful use of natural materials. Mass production, in any form, feeds our consumerism practices and entails excessive exploitation of natural resources in other parts of the world. Our progress at the expense of others is not sustainable in the long run. This 10th Green Day of Croatian Chamber of Architects, shall focus on our environment that needs all our orientation. This event will include the regenerative processes in urbanism, space, detail and materials. Through showcasing predominantly Croatian examples, we want to demonstrate that environmental concerns are not just a future trend, but also a topic in realization here and now.

Location: Zagreb Innovation Center - ZICER, Zagreb Fair Pavillion 12, 1st floor, Zagreb

09,00 – 17,00 - Open days at the Technical Museum Nikola Tesla

The **City of Zagreb Technical museum Nikola Tesla** shall open its door to visits of pupils, students, expert associations and citizens. As part of the open door day, the museum shall present an exhibition and educational centre „Renewable energy sources and energy efficiency“. In cooperation with the partners, the museum shall hold a great number of events - presentations, workshops and lectures - during the entire day in the permanent exhibition space, the theatre and in the area in front of the museum.

Location: City of Zagreb Technical Museum Savska cesta 18, Zagreb

11,00 – 14,00 - Chamber of Trades and Crafts expert forum

The **City of Zagreb Chamber of Trades and Crafts and the Association of Craftsmen of the City of Zagreb** shall give for their members and other interested tradesmen and entrepreneurs a professional presentation on the topic of new opportunities for the development of crafts and small businesses in the field of energy efficiency and renewable energy sources and adaptation of business to new market conditions.

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

16,00 - 18,00 - Presentation „Using wind energy in small wind powerplants“

The **Electromechanical Vocational school** shall present using wind energy to small wind power in their Cabinet for renewable energy sources and modern technology in electrical installation. The visitors and pupils shall be able to see equipment for the production of electricity using low power wind turbines installed in the school yard.

Location: Electromechanical Vocational school, Cabinet for renewable energy sources, Selska cesta 83, Zagreb

WEDNESDAY, May 15, 2019.

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)

09,00 – 15,00 - International conference “Smart evolution – through innovation to sustainability“

Organized by the City Office for Economy, Energy and Environment Protection, the international conference “Smart evolution – through innovation to sustainability“ will be held with the view of raising awareness and knowledge of the importance of the SMART city concept, ie a complete and sustainable city where the quality of human life and the relations to the natural environment will be at a significantly higher level. In keeping with the international trends, this year we turn to the concept of SMART cities – cities that enable efficient use of natural resources and the existing city infrastructure, sustainable economic growth, support the strengthening of research, development and innovation capacities and ensure high quality of life and availability of public digital services for all its citizens. The conference will see the experts from the field of energy and finances give an overview of the energy policy of Croatia and the European Union as well as innovative financing possibilities, and we will also have the opportunity to see examples of already implemented innovations.

Location: Zagreb Innovation Center - ZICER, Zagreb Fair Pavillion 12, 1st floor, Zagreb

10,00 – 18,00 - Energy day of the Faculty of Architecture and Faculty of Civil Engineering

In co-operation with the Passive House Croatia Consortium (www.kpk.hr), the Faculty of Architecture traditionally organizes a daily lecture program, presentation of innovative materials and systems for a highly energy efficient building construction and refurbishment. The lecturers of the Faculties of Architecture and Civil Engineering, along with the students and other invited lecturers from the field of energy efficiency, sustainable development, environment protection and circular economy, will talk about the most advanced passive home and premium standard solutions and deep renovation to “factor 10“. The first prize at the International student competition Saint-Gobain 2019 will also be awarded for urban-architectural solution of joining new construction and urban regeneration at the location in Milan and a commemorative exhibition will be open.

Lokacija: Arhitektonski fakultet Sveučilišta u Zagrebu, Kačićeva 26, Zagreb

THURSDAY, May 16, 2019.

08,00 – 16,00 - EE Info day

The traditional EE Info Day - an exhibition of companies, entrepreneurs, energy and development agencies, professional associations, City of Zagreb ECO kindergartens and ECO schools active in the field of energy efficiency, renewable energy sources, ecologically acceptable fuels and