**PRELIMINARY PROGRAM** 



# MONDAY 12, May 2014.

# 09,00 - 11,00 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

# 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)

# 09,00 – 12,30 Visit to the elementary school Sesvetska Sela

As part of the program, the pupils of the Sesvetska sela elementary school shall hold classes on energy savings and the use of renewable energy sources for the younger pupils in the school and the children in the nearby kindergarten. They will also hold classes for their grandparents on the possible ways of energy savings in their homes.

#### Lokacija: OŠ Sesvetska Sela, Letnička 5, Sesvete

09,00 – 13,00 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

#### 14,00 - 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 some laboratories and the exhibition of paintings "Energetičari umjetnici" (Artists in energy).

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

11,00 – 13,00 Round table "Public participation in the process of obtaining the environmental permit"

The association ODRAZ – Sustainable development in the community and the HR PSOR – Croatian business council for sustainable development, shall hold a round table on environmental permits and present a guide for the public. The purpose of the guide is to encourage the public to participate in the process of obtaining the environmental permit and indicate measures that parties can undertake in order to make this participation fruitful.

Location: ZG Forum, Ljudevita Gaja 27, Zagreb

#### 11,00 – 13,00 Presentation "Sustainable energy management – Croatian practice for Europe"

**The association DOOR (Society for the urban development)** shall hold a presentation on the results of the project conducted by the DOOR volunteers as well as the booklet "Sustainable energy management – Croatian practice for Europe".

# Location: The City of Zagreb Tribina, Kaptol 27, Zagreb

14,00 – 16,00 "Renewable energy sources and environment protection in innovative entrepreneurship"

**The Zagreb development agency – TPZ** shall present its actions in the field of encouraging entrepreneurship in Zagreb. Companies dealing in innovative entrepreneurship in the field of renewable energy sources and environment protection shall present their activities. Furthermore, the presentation shall detail the current financing possibilities, from local as well as external sources, for the companies dealing with energy efficiency and eco-innovations. The presentation shall also explain the project ECOFUNDING which aims to create a complete platform of financial sources that will link the investors with the entrepreneurs (as yet another possibility of financing for "green" companies).

Location: The Zagreb City Tribina, Kaptol 27

TUESDAY, May 13. 2014.

### 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)

#### 09,00 – 14,00 Workshop "Smart houses – modern and efficient lighting"

**The European association of electrical engineering and computing students,** in cooperation with prof. dr. sc. Slavko Krajcar, shall organize a free expert workshop entitled "Smart houses – modern and efficient lighting". In the first week, the faculty professors and the industry sponsors (Amtest, Schneider Electric, ENCONET and KOIOS) shall present with the theory of projection and estimate of the efficient and intelligent home and industrial lighting to the students. Thereafter, the participants shall be shown the basis for the use of DIALux. After the official presentations, the teams shall be given a more difficult task and they shall present the solution on May 23. During the practical part, the participants shall receive help from the professors and the members of the EESTEC who have experience in the said program. Depending on the quality of the solution, the teams shall be given awards for their efforts. All participants (that have offered a solution) shall receive a certificate of participation, which they will later be able add to their CV. The interested parties may apply until May 2, 23:59. The applications are individual and the teams shall be selected by the organizers. The workshop shall be attended by the Students of the Faculty of Graphic Arts, but students from other faculties may apply.

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

# 09,00 – 15,00 Croatian Chamber of Architects Day: "Development we don't want to stop, but pollution we can!"

The members of the **Croatian Chamber of Architects**, 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

09,00 – 14,00 Seminar "New technologies in the application of conventional and renewable sources of energy"

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, covering the topic of the disposal of anthropogenic CO2 in the process of producing natural gas and presenting the concept of plus energy house MV. The seminar shall also present the projects of using the waste condensates in power plants and the SCADA system of the solar power plant Kanfanar.

# Location: Old City Hall – Ćirilometodska 5, Zagreb – Hall B

# 09,00 – 12,00 Tribina "Transition towards the low-carbon development of cities"

According to the Eurostat data, the urban areas in Europe are responsible for 80% of energy consumption and the CO2 emissions with an annual increase trend of 1.9%. The recent global financial and economy crisis has shown that the current model of constant economy growth and overuse of natural resources is unsustainable. The transition towards low-carbon development should be gradual so that it would help end the economy crisis as well as encourage the competitiveness and creation of new jobs.

The discussion organized by the **UNDP (United Nations Development Program)** shall present urban initiatives in transition to low-carbon development in order to stimulate discussion concerning the opportunities for low-carbon development of cities in Croatia.

# Location: The Zagreb City Tribina, Kaptol 27

# 13,00 – 15,00 Round table "Green public procurement as support for the realization of the EU 20-20-20 goals"

**Zagreb holding** shall hold a round table and present the Green public procurement 2020 project which aims at harmonizing low-carbon procurement in Europe in order to support the EU goals on achieving 20% reduction of greenhouse gas emissions, 20% increase of renewable energy and 20% increase of energy efficiency by the year 2020.

# Location: The Zagreb City Tribina, Kaptol 27

# 14,00 – 16,00 Seminar "Energy efficiency in building and RES"

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

# 09,00 – 17,00 Open days at the Technical Museum

**The City of Zagreb Technical museum** 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 from the cities of Zagreb and Zadar, 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: Technical Museum, Savska cesta 18, Zagreb

# WEDNESDAY, May 14, 2014.

# 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 – 14,00 Workshop "Smart houses – modern and efficient lighting"

**The European association of electrical engineering and computing students,** in cooperation with prof. dr. sc. Slavko Krajcar, shall organize a free expert workshop entitled "Smart houses – modern and efficient lighting". In the first week, the faculty professors and the industry sponsors (Amtest, Schneider Electric, ENCONET and KOIOS) shall present with the theory of projection and estimate of the efficient and intelligent home and industrial lighting to the students. Thereafter, the participants shall be shown the basis for the use of DIALux. After the official presentations, the teams shall be given a more difficult task and they shall present the solution on May 23. During the practical part, the participants shall receive help from the professors and the members of the EESTEC who have experience in the said program. Depending on the quality of the solution, the teams shall be given awards for their efforts. All participants (that have offered a solution) shall receive a certificate of participation, which they will later be able add to their CV. The interested parties may apply until May 2, 23:59. The applications are individual and the teams shall be selected by the organizers. The workshop shall be attended by the Students of the Faculty of Graphic Arts, but students from other faculties may apply.

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

# 09,00 – 18,00 Meeting of the partners on the TRACE project

The project "Transnational cooperation for the improvement of buildings energy performance and efficiency" (TRACE) is co-financed by the South East Europe (SEE) program. Its aim is to provide the necessary help to local and regional governments in SEE to develop, support and improve the policies and mechanisms for the improvement of energy efficiency in buildings as well as allow for an exchange of knowledge and conducting joint activities, including the construction of capacities for executors within the regional government in order to provide training for promotional activities for energy efficiency in buildings. The third partner meeting will be held during the Zagreb energy week. It is intended solely for the partners on the project.

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

09,00 – 14,00 Symposium: "Green Building Professional - international educational methods in green building"

**Green building committee in Croatia** shall present the program "Green Building Professional" . In cooperation with the certified Green Building Professional experts and relevant expert lecturers, the Green building committee shall present a detailed cross section of the important green building segments that are applied in planning, design, construction, maintenance and management of construction projects. The Symposium shall cover several topics: Financial aspects of green building, green construction financing, funding and incentives (national and international), the choice of sustainable sites, Sustainable Materials and Resources, managing green building projects, principles of planning, design and construction of green buildings, lighting design and intelligent buildings & HVAC, EU standards, local legislation and international green building certificates – LEED, BREEAM, DGNB, Efficient management of water resources.

Location: Old City Hall - Ćirilometodska 5, Zagreb - Hall A

# 10,00 – 18,00 Faculty of Architecture seminar "Project ECO-SANDWICH"

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. They will also present the European project ECO-SANDWICH – *Concrete Sandwich Facade Panel (EU program Eco-innovation)* 

Location: Faculty of Architecture, Kačićeva 26, Zagreb

#### 10,00-16,00 Conference "Sustainability is in our hands – global networking"

The international conference *"Sustainability is in our hands – global networking"* is organized in cooperation with EUROCITIES network of capital European cities which includes over 140 cities in over 30 European countries. The EUROCITIES actively cooperates with EU institutions in the aim of solving problems that impact the lives of Europeans. The aim is to influence the legislation so that it serves the city governments which must respond to strategic challenges of the EU at the local level. A great part of the work is aimed at strengthening the role of local authorities. One of the EUROCITIES priorities is the fight against climate change. As part of the Zagreb energy week, a workshop on the subject of sustainable development and NiCE project shall be held. The conference shall be attended by the representatives of the Energy Cities, Croatian Covenant of Mayors Club and the Covenant of mayors Capital Cities of Southeast Europe club.

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

# 17,00 – 18,00 Presentation "Zagreb – New approach to the urban development"

The City of Zagreb City office for strategic planning and City development shall organize a presentation of new approaches to the urban development in the City of Zagreb.

Location: ZG Forum, Ljudevita Gaja 27, Zagreb

THURSDAY, May 15, 2014.

# 09,00 – 14,00 International conference *"Investing in the Future – World cities sharing smart, sustainable energy solutions"*

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, 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 in the green economy, creating a legal regulation for the urban sustainable development, the role of the financial sector in low-energy investments, good practice examples from European and world cities as well as innovative financial instruments as support to climate and energy activities.

# Location: Old City Hall – Ćirilometodska 5, Hall A, Zagreb

# 09,00 – 14,00 Workshop "Smart houses – modern and efficient lighting"

**The European association of electrical engineering and computing students,** in cooperation with prof. dr. sc. Slavko Krajcar, shall organize a free expert workshop entitled "Smart houses – modern and efficient lighting". In the first week, the faculty professors and the industry sponsors (Amtest, Schneider Electric, ENCONET and KOIOS) shall present with the theory of projection and estimate of the efficient and intelligent home and industrial lighting to the students. Thereafter, the participants shall be shown the basis for the use of DIALux. After the official presentations, the teams shall be given a more difficult task and they shall present the solution on May 23. During the practical part, the participants shall receive help from the professors and the members of the EESTEC who have experience in the said program. Depending on the quality of the solution, the teams shall be given awards for their efforts. All participants (that have offered a solution) shall receive a certificate of participation, which they will later be able add to their CV. The interested parties may apply until May 2, 23:59. The applications are individual and the teams shall be selected by the organizers. The workshop shall be attended by the Students of the Faculty of Graphic Arts, but students from other faculties may apply.

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

#### 09,00 -14,00 Expert symposium "PASSIVHAUS- a step towards sustainable building"

"Caparol Hrvatska" shall organize a symposium on the subject of designing and construction of sustainable objects which shall provide an opportunity to discuss the problems and challenges of launching a project that relies on sustainability with prof. Wolfgang Feist, the creator of the first passive house. This symposium shall include experts from the field of construction and architecture, from the Republic of Croatia and the region in order to familiarize the profession with the concept of

sustainable construction as an important factor in the development of an energy efficient and competitive economy.

# Location: Emerald hall of the Regent Esplanade hotel, Mihanovićeva 1, Zagreb

# 09,00 – 16,00 Conference "Light and lighting 2014"

**The lighting society of Croatia** shall organize a conference dedicated to the topic of light and lighting, providing information on public and urban lighting, light design, novelties etc. The conference shall feature other topics as well, starting with the latest technical regulations in lighting and presentations of realized projects that will serve the participants as inspiration for similar projects. The lighting society of Croatia is a member of the International Commission on Illumination – CIE, the main European organization in the area of lighting.

# Location: Hotel I, Ulica Ive Robića 2, Zagreb

#### 09,00 – 11,30 Lecture "Solarimpuls"

The **Croatian chamber of economy** shall organize a lecture on Solarimpuls, the plane that has circled the Earth using solar drive. The lecture shall be held by the creators of the plane and shall include the film on the creation of the plane and the manner in which the project has been realized. The lecture is intended for the older pupils in primary and secondary schools, but all interested parties may participate.

# Location: Croatian chamber of economy – Nova cesta 3-7, Zagreb

# 12,00 -15,00 Seminar "Development aided by EU projects"

The Croatian chamber of economy shall hold a seminar promoting the ways of participating in EU funds with a special emphasis on the energy sector, as well as present the specific European projects conducted by the Chamber.

# Location: The Croatian chamber of economy – Nova cesta 3-7, Zagreb

# 15,00 -17,00 Forum "Horizon 20-20-20"

U organizaciji **Hrvatske gospodarske komore** održati će se forum na kojem će se predstaviti program Horizon 20-20-20, novi program Europske unije za istraživanje i inovacije koji se odnosi na razdoblje 2014.-2020., a predstavlja jednu od akcija razvoja i stvaranja novih radnih mjesta. Na Forumu će se također obratiti pažnja i na umrežavanje partnera za apliciranje na projekte.

# Lokacija: The Croatian chamber of economy – Nova cesta 3-7, Zagreb

### 10,00 – 12,00 Round table "Sustainable urban mobility"

In cooperation with its partners, **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

# 16,00 – 19,00 Open door day: Energy Institute Hrvoje Požar

**The Energy Institute Hrvoje Požar** 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 Požar – Savska cesta 163, Zagreb

# 14,00 – 17,00 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 invertor (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

# 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

# 12,00 – 14,00 "Implementation of the LPG device in diesel engines"

**The company "EKO-DIZEL"** shall present a way to implement the LPG device into diesel engines and the remodeling of diesel vehicles to compressed natural gas (CNG). 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 Tribina, Kaptol 27, Zagreb

#### 09,00 – 12,00 Open door days, HEP ESCO

The company **"HEP ESCO"** shall present the ESCO projects and various possibilities of cooperation in the field of energy efficiency and renewable energy sources. The experts from HEP ESCO shall present the models of implementing projects of energy efficiency and renewable energy sources, present the new energy services on the Croatian market as well as the possibilities for possible future cooperation and provide answers to your questions.

# Location: City of Zagreb Tribina, Kaptol 27, Zagreb

# FRIDAY, May 6, 2014.

# 08,30 – 16,00 International conference "Investing in the Future – World cities sharing smart, sustainable energy solutions"

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, 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 in the green economy, creating a legal regulation for the urban sustainable development, the role of the financial sector in low-energy investments, good practice examples from European and world cities as well as innovative financial instruments as support to climate and energy activities.

# Location: Old City Hall – Ćirilometodska 5, Hall A, Zagreb

# 09,00 – 16,00 Conference "Light and lighting 2014"

**The lighting society of Croatia** shall organize a conference dedicated to the topic of light and lighting, providing information on public and urban lighting, light design, novelties etc. The conference shall feature other topics as well, starting with the latest technical regulations in lighting and presentations of realized projects that will serve the participants as inspiration for similar projects. The lighting society of Croatia is a member of the International Commission on Illumination – CIE, the main European organization in the area of lighting.

# Location: Hotel I, Ulica Ive Robića 2, Zagreb

# 14,00 – 17,00 TRACE project workshop

The project "Transnational cooperation for the improvement of buildings energy performance and efficiency" (TRACE) is co-financed by the South East Europe (SEE) program. Its aim is to provide the necessary help to local and regional governments in SEE to develop, support and improve the policies and mechanisms for the improvement of energy efficiency in buildings as well as allow for an exchange of knowledge and conducting joint activities, including the construction of capacities for executors within the regional government in order to provide training for promotional activities for energy efficiency in buildings.

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

# 08,00 – 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

# SATURDAY, May 17, 2014.

### 08,00-20,00 EE Info day

The central part of the zagreb energy Week is an EE Info Day. This manifestation "will include presentations of economic subjects, scientific and educational institutions, entrepreneurs, civil society associations, ECO kindergartens and schools active in the field of energy efficiency measures, renewable energy sources, ecologically acceptable fuels and protection of the environment. The presenters shall show their exponents and services on the provided stalls and the citizens will have an opportunity to directly contact with the presenters.

#### Location: City of Zagreb, main city square

#### 10,00 – 13,00 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 Tribina, Kaptol 27