



**INTERNATIONAL FORUM FOR  
CLEAN ENERGY TECHNOLOGIES**

**IX INTERNATIONAL FORUM FOR CLEAN ENERGY TECHNOLOGIES**

**SERBIAN ENERGY HORIZON 2020**



**Novi Sad, 29<sup>th</sup> - 30<sup>th</sup> September 2015**

**PROGRAM**

Ladies and gentlemen and dear friends,

Reaching the strategic horizon of anticipated development of the European Union (EU) until 2020 is in the final stage of implementation. Preset objectives in the most important segments for raising the quality of life of citizens and ensuring continuous sustainable progressive development of the European society do not have alternatives any more. The degree of individual and collective understanding of absolute need that overcoming of current challenges in the future and sustainable human development can be achieved only by deep systemic, normative and technological changes has reached the level of generally accepted standards and their application in the large family of European nations has already ensured exceptional results.

The Republic of Serbia as a country in the process of EU accession has very clearly defined processes that should enable full compatibility with future European partners. The legal framework of the Energy Community of which the Republic of Serbia is a member encompasses electricity, gas, renewable energy sources, energy efficiency, oil, environmental protection, competition and statistics. By implementing the provisions of the Energy Community's legal framework, we are creating stable and harmonized regulatory framework and market space.

This year's determination of the Program Committee of the International Forum on Clean Energy Technologies (Forum) to focus the SEE Countries and the Republic of Serbia on concrete and plastic identification of expected sustainable energy development and up to now achieved starting points on the way towards preset objectives for 2020 seems to be a logical priority. With this aim in particular, and as a symbol of adopted national need to constantly compare what has been achieved with what has been planned, this year's Forum - ninth in a turn to be held in Novi Sad from 29<sup>th</sup> to 30<sup>th</sup> September 2015 under the auspices of the Assembly of the Autonomous Province of Vojvodina, will be called "SERBIAN ENERGY HORIZON 2020".

It is our common vision that the 2015 Forum "SERBIAN ENERGY HORIZON 2020" and the credibility of presented concepts, technological solutions and scientific works will encourage the use of available potentials in these regions and stimulate further cooperation and development of the energy sector in the SEE Countries. The last year's Forum called Energy Charter tried to initiate general and comprehensive action in vertical and horizontal linking of stakeholders in the field of energy efficiency in local self-governments. However, all activities undertaken in the period after the 2014 Forum only show our insufficient institutional and organizational readiness for such an attempt. Therefore, this year's Forum should be seen as the continuation of efforts to reach planned objectives within a reasonable period of time. This year's program topics should provide answers for challenges in applying clean energy technologies under current circumstances by means of presenting successful and already applied solutions, international partnerships and by seeking the most favorable way to finance initiated projects and to create new ones in the energy sector.

We should be worried because of the regional and national passivity in the use of funds from the European mega project "Horizon 2020" and try to initiate additional cooperation among countries and provide necessary expertise and operational assistance to local self-governments. At the same time, the 2015 Forum is planning to consider the development in the area of energy efficiency and the use of renewable energy sources as a social and technological priority. The Republic of Serbia, according to many indicators, still considerably lags behind with reference to the creation of its own energy efficiency policy that will be able to ensure the country's realistic and sustainable development in the future that has been successfully achieved in EU countries today. This requires much better organization of governance, effective energy management and efforts to change the behavior of energy users and to adopt imperatives of permanent energy saving.

The first day of the Forum will be devoted to discussions and actualization of achieved results in relation to the existing strategic basis of the energy policy and sustainable development of the Republic of Serbia, as well as to considerations of experiences of countries in the region and in the EU and the presentation of papers by invitation. The Program Committee will directly contact authors and select topics that will be proposed for presentation and publication in scientific journals and at scientific portals. In all working sessions, panel discussions will be opened after presentations. These discussions should provide clear messages in final joint conclusions for possible more dynamic sustainable development of the energy sector in Serbia and in the region of Southeast Europe until 2020. The second day of the Forum, with the co-auspice of the Vojvodina Chamber of Commerce, will be particularly focused on the consideration of realized business projects in the country and abroad, as well as to B2B meetings with potential partners. Also, during the second day, a panel will be opened relevant to the important topic "Oil in the Energy Mix after 2020" with the support of the National Petroleum Committee of Serbia - World Petroleum Council.

We take this opportunity to invite you to participate in this year's IX Forum "SERBIAN ENERGY HORIZON 2020" and to give your contribution in creating the vision of energy future, business projects and strengthening mutual relations and energy security of the Republic of Serbia and the SEE Countries.

Respectfully your,

Tihomir Simić, PhD  
Chairman of the Forum

Ivo Vajgl  
Co- Chairman of the Forum

June 2015



## FORUM IS SUPPORTED BY



Republic of Serbia  
Autonomous Province of Vojvodina  
Assembly of Autonomous Province of Vojvodina



CHAMBER OF ECONOMY OF VOJVODINA



National Petroleum Committee of Serbia - World Petroleum Council



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Energy Innovation Center TESLIANUM

## FORUM IS ORGANIZED BY



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Faculty of Technical Sciences  
Novi Sad

### FORUM PROGRAM COMMITTEE

|                               |  |
|-------------------------------|--|
| Tihomir Simić, PhD            | Chairman of the Forum  |
| Ivo Vajgl                     | Co-Chairman of the Forum, INEA – Institute for European Affairs, Dusseldorf, Germany |
| Prof. Dušan Gvozdencac, PhD   | Faculty of Technical Sciences, UNS, Novi Sad, Serbia                                 |
| Prof. Dušan Nikolić, PhD      | University of Novi Sad, Novi Sad, Serbia   |
| Prof. Rade Doroslovački, PhD  | Faculty of Technical Sciences, UNS, Novi Sad, Serbia                                 |
| Prof. Slobodan Sokolović, PhD | National Petroleum Committee of Serbia, Belgrade, Serbia                             |
| Prof. Milan Radovanović, PhD  | Society of Thermal Engineers of Serbia, Belgrade, Serbia                             |
| Ratko Filipović               | Chamber of Economy of Vojvodina, Novi Sad, Serbia                                    |
| Prof. Vojin Grković, PhD      | Faculty of Technical Sciences, UNS, Novi Sad, Serbia                                 |

### FORUM ORGANIZING COMMITTEE

|   |  |
|---|--|
| Marijana Cupać, MEM                           | Executive Director of the Forum                      |
| Assist. Prof. Damir Djaković, PhD             | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Branka Gvozdencac Urošević, PhD | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Miroslav Kljajić, PhD           | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Jovan Vujičić, PhD                            | Chamber of Economy of Vojvodina, Novi Sad, Serbia    |

### FORUM SCIENTIFIC COMMITTEE

|   |  |
|---|--|
| Prof. Dušan Gvozdencac, PhD                   | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Prof. Vojin Grković, PhD                      | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Damir Djaković, PhD             | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Dunja Sokolović, PhD            | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Branka Gvozdencac Urošević, PhD | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |
| Assist. Prof. Miroslav Kljajić, PhD           | Faculty of Technical Sciences, UNS, Novi Sad, Serbia |



## 2015 FORUM POOL



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## 2015 FORUM MEDIA PARTNERS



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**Program**  
**First Day (Tuesday, 29<sup>th</sup> September 2015)**  
**Central Hall, Assembly of the Autonomous Province of Vojvodina,**  
**Vladike Platona bb, 21000 Novi Sad**

**PLENARY SESSION**

**ENERGY SECURITY A PRECONDITION FOR SUSTAINABLE DEVELOPMENT**

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|---------------|--|
| 8:30 – 9:30   | <b>Registration of participants</b>  |
| 9:30 – 10:30  | <b>Opening Ceremony of the IX Forum SERBIAN ENERGY HORIZON 2020</b><br><b>Introductory Speech – Tihomir Simić; Chairman of the Forum, Novi Sad, Serbia</b><br><b>Welcome Speeches</b><br><i>Ivo Vajgl; President for South East Europe of INEA – Institute for European Affairs, Dusseldorf, Germany and Member of European Parliament, Brussels, Belgium</i><br><i>Ljubo Mačić; President of the Council of the Energy Agency of the Republic of Serbia, Belgrade, Serbia</i><br><i>Bogdan Laban; Managing Director of EPS Distribution, Belgrade, Serbia</i><br><i>Rade Doroslovački; Dean of the Faculty of Technical Sciences, Novi Sad, Serbia</i><br><i>Petar Škundrić; President of the National Petroleum Committee of Serbia – World Petroleum Council</i><br><i>Leo D'Aes; His Excellency, Ambassador of the Kingdom of Belgium to Serbia, Belgrade, Serbia</i><br><i>Attila Pintér; His Excellency, Ambassador of Hungary to Serbia, Belgrade, Serbia</i><br><i>Nenad Stanković; Provincial Secretary for Energy and Mineral Resources, Novi Sad, Serbia</i><br><i>István Pásztor; President of the Assembly of the Autonomous Province of Vojvodina, Novi Sad, Serbia</i><br><b>Opening of the Forum – Zorana Mihajlović; Deputy Prime Minister of the Serbian Government, Belgrade, Serbia</b><br><b>Joint Photograph (Central Hall)</b><br><b>Press Conference</b> |
| 10:30 – 11:00 | <b>Coffee Break</b>  |

**FIRST WORKING SESSION**  
**SERBIAN ENERGY HORIZON 2020**

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| 11:00 – 11:20 | <b>ENERGY SECURITY – BASIS OF SUSTAINABLE DEVELOPMENT</b><br><i>Tihomir Simić; Chairman of the Forum on Clean Energy Technologies, Novi Sad, Serbia</i>  |
| 11:20 – 11:40 | <b>DEVELOPMENT OF RENEWABLE ENERGY SOURCES IN THE REPUBLIC OF SERBIA</b><br><i>Vesna Simić; Ministry of Mining and Energy of the Serbian Government, Belgrade, Serbia</i>  |
| 11:40 – 12:00 | <b>ACTIVITIES OF THE PROVINCIAL SECRETARIAT FOR ENERGY AND MINERAL RESOURCES APV ON THE REALIZATION OF THE ENERGY DEVELOPMENT STRATEGY OF THE REPUBLIC OF SERBIA</b><br><i>Nenad Stanković; Provincial Secretariat for Energy and Mineral Resources, Novi Sad, Serbia</i>  |
| 12:00 – 12:20 | <b>ELECTRICITY AND GAS MARKET DEVELOPMENT IN SERBIA</b><br><i>Ljiljana Hadžibabić; Energy Agency of the Republic of Serbia, Belgrade, Serbia</i>   |
| 12:20 – 12:40 | <b>LEEN CONCEPT: DRIVING FORCE OF SUSTAINABLE COUNTRY DEVELOPMENT</b><br><i>Eberhard Jochem, Mirjana Prljević, Michael Mai, Ursula Mielicke; Institute of Resource Efficiency and Energy Strategies, Karlsruhe, Germany; Energy Innovation Center TESLIANUM, Belgrade, Serbia; Institute of Resource Efficiency and Energy Strategies, IREES, Karlsruhe, Germany; Fraunhofer Institute for Systems &amp; Innovation Research, Karlsruhe, Germany</i> |
| 12:40 – 13:00 | <b>CENTRALIZED SYSTEM FOR MICROGRID MANAGEMENT</b><br><i>Aleksandar Selakov; Schneider Electric DMS NS, Novi Sad, Serbia</i>   |
| 13:00 – 13:40 | <b>Coctail (Vojvodina Assembly Representatives Club)</b>   |

**SECOND WORKING SESSION**  
**POSSIBILITIES FOR MASSIVE USE OF ENERGY TECHNOLOGIES**

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| 13:40 – 14:00 | <b>LEARNING ENERGY EFFICIENCY NETWORKS (LEEN) IN THE WESTERN BALKANS - CONCEPT &amp; ESTIMATED OUTCOMES</b><br><i>Mirko Krück; LEEN GmbH, Karlsruhe, Germany</i>   |
| 14:00 – 14:20 | <b>INVESTMENT PROJECTS OF PU "SRBIJAGAS"</b><br><i>Milan Zdravković; PU „Srbijagas“, Novi Sad, Serbia</i>  |
| 14:20 – 14:40 | <b>ICT TECHNOLOGIES FOR ENERGY EFFICIENT AIRPORTS</b><br><i>Nikola Tomašević, Marko Batić; Institute Mihajlo Pupin, Belgrade, Serbia</i>   |
| 14:40 – 15:00 | <b>SYSTEMS OF DISTRICT HEATING ON BIOMASS – REPLACEMENT OF FOSSIL FUELS BY AGRICULTURAL OR WOOD BIOMASS</b><br><i>Nebojša Rakočević; IEE Novi Sad – ELNOS Group, Belgrade, Serbia</i>                                      |
| 15:00 – 15:20 | <b>ENERGY EFFICIENCY AS A DRIVER OF BUILDING CONSTRUCTION SECTOR – PROGRAM OF ENERGY REFURBISHMENT OF BUILDINGS IN CROATIA</b><br><i>Ana Pavičić Kaselj; Center for Urban and Territorial Development, Zagreb, Croatia</i> |
| 15:20 – 15:40 | <b>TRENDS OF USE OF ICT TECHNOLOGIES IN IMPROVING THE ENERGY EFFICIENCY</b><br><i>Valentina Milenković; SAGA, Belgrade, Serbia</i>   |
| 15:40 – 16:10 | <b>Discussion, conclusions and message for the public</b>  |



**Second Day (Wednesday, 30<sup>th</sup> September 2015)**  
**Main Hall, Chamber of Economy of Vojvodina,**  
**Hajduk Veljkova Street 11, 21000 Novi Sad**

**THIRD WORKING SESSION**  
**PRESENTATION OF PAPERS IN THE FIELD OF ENERGY EFFICIENCY,**  
**RENEWABLE ENERGY SOURCES AND ENERGY MANAGEMENT**

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| 9:30 – 9:35   | <b>ADDRESS OF THE FORUM'S CHAIRMAN</b><br><i>Tihomir Simić; Chairman of the Forum, Novi Sad, Serbia</i>  |
| 9:35 – 9:40   | <b>WELCOME SPEECH</b><br><i>Ratko Filipović; President of the Chamber of Economy of Vojvodina, Novi Sad, Serbia</i>  |
| 9:40 – 9:50   | <b>AUTOMATION OF NETWORKS AS AN IMPORTANT FACTOR FOR INCREASING RELIABILITY OF ELECTRICITY DISTRIBUTION GRID OF ELEKTROVOJVODINA</b><br><i>Aleksandar Bošković, Bratislava Radmilović; EPS Distribution – Regional Center Elektrovojvodina, Novi Sad, Serbia</i> |
| 9:50 – 10:00  | <b>TELECOMMUNICATION INFRASTRUCTURE FOR DEES AUTOMATION</b><br><i>Slavko Dubačkić, Aleksandar Bošković; EPS Distribution – Regional Center Elektrovojvodina, Novi Sad, Serbia</i>  |
| 10:00 – 10:10 | <b>SYSTEM FOR ELIMINATION OF NON-TECHNICAL ELECTRICITY LOSSES – SECOND STAGE</b><br><i>Vladimir Kulpinski; EPS Distribution – Regional Center Elektrovojvodina, Novi Sad, Serbia</i>   |
| 10:10 – 10:20 | <b>IMPACT OF ENERGY PRICES ON PRIMARY ENERGY CONSUMPTION UNDER COST-OPTIMAL OPERATION OF ENERGY SYSTEMS</b><br><i>Mirko Stojiljković, Marko Ignjatović, Goran Vučković; Mechanical Engineering Faculty, University of Niš, Niš, Serbia</i>                       |
| 10:20 – 10:30 | <b>POSSIBILITIES OF LIGNITE DRYING</b><br><i>Damir Đaković, Vojin Grković, Momčilo Spasojević; Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia</i>   |
| 10:30 – 10:40 | <b>INFLUENCE OF CENTRAL AND LOCAL REGULATION IN DISTRICT HEATING SYSTEMS ON IMPROVING BUILDINGS ENERGY PERFORMANCE</b><br><i>Davor Andrašić; Public Communal Enterprise “Subotička Toplana”, Subotica, Serbia</i>  |
| 10:40 – 10:50 | <b>SMART ELPIS - DIGITAL DOCUMENT REGISTRY</b><br><i>Ivana Ružičić; SMART Novi Sad – SAGA Belgrade, Serbia</i>   |
| 10:50 – 11:05 | <b>Coffee Break</b>  |

**FOURTH WORKING SESSION**  
**TECHNOLOGY AND INVESTMENT GROUNDS FOR THE USE OF BIOMASS CENTRAL HEATING SYSTEM –**  
**TURNKEY SYSTEM**

**Moderator: Nebojša Rakočević, IEE LLC Novi Sad, ELNOS GROUP**

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| 11:05 – 12:35 | <b>BIOMASS LOGISTICS; Milan Skočić, IEE GROUP, Banja Luka, Republika Srpska</b><br><b>DESIGN; Nebojša Rakočević, IEE GROUP, Novi Sad, Serbia</b><br><b>CONSTRUCTION; Dragiša Zečević, IEE GROUP, Banja Luka, Republika Srpska</b><br><b>COMMISSIONING; Dragiša Zečević, IEE GROUP, Banja Luka, Republika Srpska</b><br><b>PROJECT FINANCING; Aleksandar Grabovac, Komercijalna banka, Belgrade, Serbia</b><br><b>GRANT – WEBSEFF; Sveltana Opačić, E3 International/WeBSEFF team, Belgrade, Serbia</b><br><b>Discussion</b> |
| 12:35 – 12:50 | <b>Coffee Break</b>   |

**FIFTH WORKING SESSION**  
**OIL INDUSTRY BEYOND 2050**

**Moderator: Slobodan Sokolović, National Petroleum Committee of Serbia, Belgrade, Serbia**

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| 12:50 – 14:20 | <b>The Session is organized by the National Petroleum Committee of Serbia – World Petroleum Council</b><br><b>Panelists:</b><br><i>Aleš Peternel; Slovenian Petroleum and Gas Committee – World Petroleum and Gas Council, Ljubljana, Slovenia</i><br><i>Costis Stambolis; Institute of Energy for South-East Europe, Athens, Greece</i><br><i>Goran Radosavljević; National Petroleum Committee of Serbia – World Petroleum Council, Belgrade, Serbia</i><br><i>Petar Gonja; Standard Gas, Novi Sad, Serbia</i><br><b>Cocktail</b> |
|---------------|---|

**FINAL SESSION**  
**CONCLUSIONS AND CLOSING CEREMONY OF THE IX FORUM FOR CLEAN ENERGY TECHNOLOGIES**  
**Chairman of the Forum: Tihomir Simić, Novi Sad, Serbia**

