

## AGENDA

### Conference

### Renewable energy sources in district heating and cooling systems

[50<sup>th</sup> International HVAC&R congress and exhibition](#)

Thursday and Friday, December 5 and 6, 2019

Sava Center, hall 1

### [REGISTRATION LINK](#)

#### Session 8 – District heating and cooling (December 5)

Sponsored by the European Bank for Reconstruction and Development (EBRD) – the Renewable District Energy in the Western Balkans Programme (the ReDEWeB Programme) and the Federal Ministry of Finance of Austria. It is organized in partnership with the International Renewable Energy Agency (IRENA).

**CHAIRMEN: Paul VOSS, Petar VASILJEVIĆ, Bojan BOGDANOVIĆ**

**8.00-9.00 REGISTRATION OF PARTICIPANTS**

**9:00-9:30 INTRODUCTION SPEECHES**

**Welcome:**

- Federal Ministry of Finance of Austria
- EBRD and ReDEWeB Programme
- President of the City Assembly of Belgrade
- Energy Community Secretariat
- UN Environment

**9:30-10:40 PANEL 1 – Application of renewable sources in district heating**

**Panel participants:**

- Prof. Miloš BANJAC, Assistant Minister, Ministry of Mining and Energy, Serbia
- Paul VOSS, Director, Euroheat & Power, Belgium

- Dejan STOJANOVIĆ, Chair of the Governing Board, Serbian Association of Power Plants
- Dušan MACURA, Manager of Production and Distribution, Public utility company for district heating JKP Novosadska toplana, Novi Sad, Serbia
- Dejan JOVIŠEVIĆ, Member of the Governing Board, Eko toplane, Banja Luka, BiH

**10:40-11:50 PANEL 2 – Beginning and ending of heating season – Legal regulation and experience from surrounding regions**

**Panel participants:**

- Prof. Alojz POREDOŠ, President, Slovenia Energy Association
- Zoran PREDIĆ, State Secretary, Ministry of Mining and Energy, Serbia
- Goran ALEKSIĆ, Chair of the Assembly, Serbian Association of Power Plants, Serbia
- Jurica BRNAS, Direktor toplovodne mreže, HEP – Toplinarstvo, Hrvatska

**11:50-13:30 PAPERS PRESENTATIONS**

- 1. Large solar thermal projects in Bor and Pančevo – green energy at lower costs than fossil fuels**  
Patrick RITER, Hrvoje Milošević, Solid GmbH, Austria
- 2. Implementation of biomass into the district heating system in Serbia**  
Petar VASILJEVIĆ, Serbia
- 3. Use of geothermal energy in district heating system – case study of a project in Bogatić, Serbia**  
Prof. Dejan MILENIĆ, Faculty of Mining and Geology, Belgrade, Serbia
- 4. Experience with smart operation of ULTDH Domestic hot water Booster Substation for multifamily building**  
Jan Eric THORSEN, Oddgeir GUDMUNDSSON, Marek BRAND, Danfoss
- 5. From Jordan to Mongolia – EBRD District Energy Experience**  
Greg GEBRAIL, EBRD
- 6. Synergy of application of energy efficiency measures and renewable energy sources as a condition for securing competitiveness of the district heating systems – City of Šabac, good practice example**  
Slobodan Jerotić, Public utility Toplana Šabac, Serbia

**13:30-14:00 COFFEE BREAK AND REFRESHMENTS**



**Session 9 – IRENA - Capacity Building Renewable Energy Applications for District Heating and Cooling in Cities (December 5-6, 2019)**

This session is sponsored by the International Renewable Energy Agency (IRENA). It is organized in partnership with the European Bank for Reconstruction and Development (EBRD) - the Renewable District Energy in the Western Balkans Programme (the ReDEWeB Programme).

**14:10-14:30 WELCOMING REMARKS**

**Panel participants:**

- Prof. Miloš BANJAC, Assistant Minister, Ministry of Mining and Energy, Serbia
- Luca ANGELINO, International Renewable Energy Agency
- Bojan BOGDANOVIĆ, European Bank for Reconstruction and Development

**14:30-16:00 PANEL I: Strategic heating and cooling planning**  
**Moderator: Luca ANGELINO, IRENA**

- *Developing an effective strategic heating/cooling plan: What are the key success factors?* Aalborg University
- *How can geothermal resource assessment and mapping influence decision-making for district heating: Experience from Hungary and the Danube region* Annamária NÁDOR, Mining and Geological Survey of Hungary
- Q&A

**16:00-16:30 COFFEE BREAK**

**16:30-17:00 PANEL II: Improving the enabling frameworks for the integration of renewable and excess heat sources in district heating and cooling**  
**Moderator: Luca ANGELINO, IRENA**

- *Lessons learned and perspectives from the industry* Paul VOSS, Euroheat & Power
- Q&A

**17:00-19:00 PANEL III: From conventional to efficient and renewable-based district heating**  
**Moderator: Bojan BOGDANOVIĆ, EBRD**

- *Technical challenges and solutions for the integration of low-grade heat sources into existing networks and buildings* Jacob Zinck THELLUFSEN, Aalborg University
- *Case study from Belgrade*
  - City of Belgrade: District Energy Action Plan
  - Solar thermal potential in the City of Belgrade's District Heating System
  - Prefeasibility study on interconnection within the District Heating System of the City of Belgrade
- Q&A

**END OF DAY ONE**

**DECEMBER 6, 2019**

**09:15-11:00 PANEL IV: Enabling Framework Conditions, Financing and Business Models**  
**Moderator: Luca ANGELINI, IRENA**

- *Ownership structure, financing, and regulation: Experience and innovative approaches*  
Søren Roth DJØRUP, Aalborg University
- *Renewable energy market analysis for South-East Europe, Focus on heating and cooling*  
Emanuele Bianco, IRENA
- *Challenges and solutions for financing renewable energy and efficient district energy systems*  
Greg GEBRAIL, European Bank for Reconstruction and Development
- *Perspectives from the private sector*  
Eirikur BRAGASON, Arctic Green Corporation Europe
- Q&A

**11:00-11:30 COFFEE BREAK**

**11:30-12:00 IRENA Project Navigator: Preview of Technical Concept Guidelines for Renewable heating and cooling systems**

Simon BENMAZARRE, IRENA

- Q&A

**12:30-13:45 PANEL V: Technical challenges and solutions for the integration of renewable heat sources into new and existing district heating and cooling networks**

**Moderator: Jack KIRUJA, IRENA**

- *Technical challenges and solutions for integrating low-temperature geothermal energy resources: lessons learned from France and the Pannonian Basin*  
Miklos ANTICS, GPC IP-Geofluid / European Geothermal Energy Council
- *Technical challenges and innovative solutions for Integrating solar thermal into district heating and cooling*  
Patrick RITER, Solid GmbH, Austria
- *The role of district cooling in the future smart energy systems*  
Jan Eric THORSEN, Oddgeir GUDMUNDSSON, Marek BRAND, Danfoss
- Q&A

**13:45-14:00 CLOSING REMARKS: IRENA/EBRD**

**LUNCH / END OF CONFERENCE**