

AGENDA

Conference

Renewable energy sources in district heating and cooling systems

[50th 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:

- Peter ISTJAN-HÖLZI, Senior Advisor for International Financial Institutions and Sustainable Development, Federal Ministry of Finance of Austria
- Zsuzsanna HARGITAI, Regional Director for Western Balkans, EBRD
- President of the City Assembly of Belgrade (TBC)
- Violeta KOGALNICEANU, Head of infrastructure and energy efficiency unit, Energy Community Secretariat
- Sonja MALIĆEVIĆ, District Energy Consultant, UN Environment
- Luca ANGELINO, Programme Officer, IRENA

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 POREDOS, 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

11:50-13:15 PAPERS PRESENTATIONS

- 1. Large solar thermal projects in Bor and Pančevo – green energy at lower costs than fossil fuels**
Patrick REITER, Hrvoje MILOŠEVIĆ, Solid GmbH, Austria
- 2. Implementation of biomass into the district heating system in Serbia**
Petar VASILJEVIĆ, Serbia
- 3. Experience with smart operation of ULTDH Domestic hot water Booster Substation for multifamily building**
Jan Eric THORSEN, Oddgeir GUDMUNDSSON, Marek BRAND, Danfoss
- 4. From Jordan to Mongolia – EBRD District Energy Experience**
Greg GEBRAIL, EBRD
- 5. 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
- 6. Utilisation of energy from municipal waste and landfill gas - Belgrade case study**
Vladimir MILOVANOVIĆ, Beo Čista Energija

13:15-14:10 LUNCH AND COFFEE BREAK



**Session 9 – IRENA –
Energy Solutions for Cities of the Future: Facilitating the Integration of Low-Temperature Renewable Energy Sources into District Energy Systems -
Capacity Building Workshop**

(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

- *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* UN Environment
 - 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

- *Conversion to low temperature DH networks with increased utilisation of local solar thermal systems – Horizon 2020 project Related*
Ljubisa VLADIĆ, Radmilo SAVIĆ, PUC Beogradske elektrane
- Q&A

END OF DAY ONE

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09:15-11:00 PANEL IV: Enabling Framework Conditions, Financing and Business Models
Moderator: Luca ANGELINO, 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: 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 REITER, 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