

SDDE 2017 CONFERENCE PROGRAMME

Sunday, 19 March 2017

16.00 – 18.00	Sponsor registration
18.00 - 19.00	SDDE general assembly
19.00 – 21.00	Welcome reception in the exhibition area

Monday, 20 March 2017

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9.00 – 10.00	Participant registration
10.00 - 10.30	Opening address Samo Lozej, Energetika Ljubljana Alojz Poredoš, President of SDDE Klemen Potisek, State Secretary, Ministry of Infrastructure, Slovenia Iztok Golobič, ZSIS
10.30 – 11.30	Plenary lectures Paul Voss, Euroheat & Power Franc Žlahtič, WEC and Slovenian Academy of Sciences and Arts, Council of Energy
11.30 - 12.50	Main panel: District energy for green cities Moderator: <i>Alenka Žumbar Klopčič</i> , Energetika.NET
	Panellists: Alojz Poredoš, SDDE Jože Dimnik, Ministry of Infrastructure, Slovenia Samo Lozej, Energetika Ljubljana Hinko Šolinc, Eco Fund Slovenia (TBC) Janez Grošelj, Petrol
12.50 - 14.10	Lunch

14.10 – 16.10 <u>SESSION 1:</u> DISTRICT HEATING AND COOLING SYSTEMS – parallel session Moderator: *Lars Gullev*, VEKS, Denmark

- The role of district cooling in future smart energy systems
 Oddgeir Gudmundsson, Jan Eric Thorsen and Marek Brand, Danfoss A/S
- Integrating district heating systems into sustainable energy systems Adnan Karahmetović, Amer Karabegović, Centralno grijanje Tuzla
- Hourly optimization model for district heating systems including building retrofit Case study for the city of Velika Gorica

 Hrvoje Dorotić, Matija Pavičević, Tomislav Novosel, Tomislav Pukšec,

 Neven Duić, Faculty of Mechanical Engineering and Naval Architecture,

 University of Zagreb
- Measures to improve energy efficiency and reduce the specific primary energy consumption in the Konjarnik district heating plant Branimir Vidačić, Bojan Bogdanović, Vladimir Tanasić, PUC Beogradske elektrane
- Ensuring high reliability of Energetika Ljubljana district heating systems Primož Matičič, Srečko Trunkelj, Energetika Ljubljana
- The first year of circular economy in using metallurgical waste heat for district heating and sanitary hot water production in Ravne na Koroškem Miran Fužir, Petrol Energetika
- WILO solutions promotional presentation

<u>SESSION 2:</u> NATURAL GAS – parallel session Moderator: *Dejan Koletnik,* Plinovodi

 Operational characteristics and development of natural gas transmission system

Marjan Eberlinc, Oton Gortnar, Marko Širovnik, Plinovodi

- Outlooks for gas pipeline systems in the light of energy transition Marko Ileršič, Dejan Koletnik, Plinovodi
- Billing natural gas supply in units of energy Aleš Žurga, Energy Agency Slovenia
- Gas balancing in transmission systems Transition to a trading platform Vinko Nedelko, Energy Agency Slovenia
- Safety in domestic gas installations a task for all concerned Aida Bučo-Smajić, DVGW office Sarajevo
- Instant and competitive district cooling systems

 Lars Munkoe, Purix, Denmark; Tomaž Vončina, SIES, Slovenia
- 16.10 16.40 Coffee break (sponsored by WILO)

16.40 – 18.20 SESSION 3: ENERGY EFFICIENCY AND ENVIRONMENTAL PROTECTION

- plenary session

Moderator: Jože Torkar, Petrol

• A tale on 100% efficient use of resources - The life cycle of a citrus fruit from South America to Denmark

Lars Gullev, VEKS, Denmark

 Black carbon research with the use of ultralight airplane – Biomass smoke generated during biomass combustion to heat individual houses dominates particulate air pollution

Matevž Lenarčič, Domen Grauf, Aerovizija; Griša Močnik, Aerosol

 Case study of increased thermal length of heat exchangers for district heating substations

Jan Eric Thorsen, Oddgeir Gudmundsson, Marek Brand, Danfoss

- Integration of a cogeneration plant into DHP West, Novi Sad Dušan J. Macura, Aleksandra S. Lukić, Novi Sad Heating Plant
- District heating vs. gas boilers in the City of Novi Sad Aleksandra S. Lukić, Dušan J. Macura, Novi Sad Heating Plant
- Petrol solutions promotional presentation

20.00 - ... Gala dinner with live music

Tuesday, 21 March 2017

9.00 – 10.40 SESSION 4: DISTRICT ENERGY POLICIES, REGULATION AND

MANAGEMENT – parallel session Moderator: *Andrej Ljubenko*, SDDE

 EU energy package and the role of natural gas in Slovenia's district energy systems

Peter Novak, Energotech and Faculty of Technologies and Systems, Novo mesto

• The development of new ESCO business models within the Horizon 2020 project Moeebius

Bojan Bogdanović, Radmilo Savić, Beogradske Elektrane; Ricardo Rato, Cláudia Mafra, Sustainable Innovation Centre; Petar Vasiljević, Beogradske Elektrane; Miodrag Zdravković, City of Belgrade - Secretariat for Energy

• DHS as obligor of energy management system

Tatjana Nušić, Miloš Banjac, Petar Vasiljević, PUC Beogradske elektrane and Faculty of Mechanical Engineering, Belgrade, Serbia

- Implementation of Article 9 of Energy Efficiency Directive Croatia's experience Danica Maljković, Igor Novko, Igor Balen, Željko Plantić, Energy Institute Hrvoje Požar
- Spatial analysis of long-term heat consumption in a local community and the role of district heating systems in heat supply – Case study for the City of Maribor Jure Čižman, Damir Staničić, Matjaž Česen, IJS CEU; Miran Rožman, Energetika Maribor

SESSION 5: DISTRICT HEATING AND COOLING ELEMENTS, METERING AND CONTROL – parallel session

Moderator: *Andrej Kitanovski*, Faculty of Mechanical Engineering, University of Ljubljana

- Automatic hydronic balancing of district heating branches Rok Miklavžina, KP Velenje; Iztok Kunšek, Danfoss Trata
- Comparison of underground valve actuation solutions Andrea Sichna, Vexve Oy
- Taking measurements at balancing and control valves Andrej Krajnc, TA Regulator
- Basic pressure control methods, basic theory and basic element sizing Andrej Krajnc, TA Regulator
- Numerical heat loss analysis in wet insulation for heat pipes in channels at small water leakage

Matjaž Perpar and Zlatko Rek, Faculty of Mechanical Engineering, University of Ljubljana

10.40 - 11.10 Coffee and fruit break

11.10 – 12.30 <u>SESSION 6:</u> ENERGY EFFICIENCY AND ENVIRONMENTAL PROTECTION – plenary session

Moderator: *Mihael Sekavčnik*, Faculty of Mechanical Engineering, University of Ljubljana

- Exergoeconomic optimisation of district cooling system Tjaša Duh Čož, Andrej Kitanovski, Alojz Poredoš, Faculty of Mechanical Engineering, University of Ljubljana
- Energy supply companies in the digital break
 Max Hammerer, Hammerer-system-messtechnik Klagenfurt
- HYACINTH: HYdrogen ACceptance IN the Transition pHase, European funded project from FCH-JU
 Mitja Mori, Faculty of Mechanical Engineering, University of Ljubljana;
 Tadej Auer, Development Centre for Hydrogen Technologies, Ljubljana, Slovenia;
 Maria Jaen, Centro Nacional del Hidrógeno, Ciudad Real, Spain
- European-wide field trials for residential fuel cell micro-CHP Tadej Auer, Development Centre for Hydrogen Technologies, Ljubljana, Slovenia; Mike Small, COGEN Europe / BDR Thermea, Netherlands
- Opportunities for increasing economic and energy efficiencies of Romanian district heating companies

 Eduard Minciuc, Vladimir Tanasiev, Faculty of Power Engineering, University Politehnica of Bucharest
- **12.30 13.00** End of the conference