

Final conference RES4LIVE: renewable energy and sensors for thermal comfort of livestock

Session 70 within the 75th EAAP Annual Meeting

Florence 3rd September 2024 - 14:30 - 18:30

Chairs: Jarissa Maselyne (ILVO) and Michael Odintsov Vaintrub (UNITE)

14:30 - 14:45

B. Paris (CERTH) - Energy Use in the EU Livestock Sector: A Review Recommending Energy Efficiency Measures and Renewable Energy Sources Adoption

14:45 - 15:00

Michail Moraitis (CERTH) - Utilizing energy auditing in intensive livestock farming facilities

15:00 - 15:15

Manon Everaert (ILVO) - Simulation model for renewable energy systems in livestock barns: three case studies

15:15 - 15:30

Michail Moraitis (CERTH) - The AgEnergy platform — a tool to search and assess fossil-energy-free technologies and strategies

15:30 - 15.45

Anatoli Rontogianni (CERTH) - Sustainable livestock sector under climate transition

15.45 - 16:00

Stefano Benni (UNIBO) - An integrated renewable energy system for the de-fossilization of a commercial swine nursery barn

16:00 - 16:30 - Coffee break

16:30 - 16:45

Dimitrios Tyris (AUA) - Heat Pump HVAC System as Part of an Integrated RES System for the Indoor Climate Control of a Laying Hen House

16:45-17:00

Hans Hoes (TerraEnergy) Geothermal energy concepts for livestock applications, analysis of energy savings, life cycle cost and animal welfare

17:00 - 17:15

Dimitrios Tyris (AUA) - Life Cycle Impact Assessment of an Integrated PVT-BTES-Heat Pump System for a Commercial Swine Farm in Italy

17:15- 17:30

Li Rong (AU) - Modeling of thermal status at animal level – Swine and Cattle: A Review

17:30 - 17:45

Petros Tegenaw (ILVO) - The effect of renewable energy transition on the thermal comfort in a pig farm — animal compartment level experimental investigation

17:45 - 18:00

Lukas Wannasek (ATB) Compact Bio-CNG farm filling fuel production from anaerobic digestion: Hollow fiber permeation and Hybrid compression for technically and economically feasible small-scale biofuel production

18:00 - 18:30

Questions & Answers session