



63 SIMPOSIO AFI
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Associazione Farmaceutici Industria
Società Scientifica

DIGITAL WORKSHOP

THE ROAD TO SUSTAINABLE PHARMA PRODUCTION PLANT: ZETA INSIDE-TO-OUTSIDE APPROACH WITH EXAMPLES OF POSSIBLE MEASURES TO IMPROVE ENERGY EFFICIENCY THROUGHOUT THE PLANT



Wednesday 8th May - 09:00/11:00

During this virtual workshop, ZETA will present its Inside-to-Outside approach together with three examples of possible solutions to improve the energy efficiency of the entire production plant.

- 1 -** As an example of energy optimization of process equipment, ZETA will present the advantages of Buffer Inline Conditioning System versus conventional buffer preparation strategies. How to solve the “buffer crisis”? A more advanced concept called the Buffer Inline Conditioning System (BICS) can be used.
- 2 -** As an example of energy optimization of cleanrooms, ZETA will present the benefits of a data driven design approach that combines production process simulation and CFD airflow simulation. How to reduce the energy demand of a cleanroom while providing an optimized contamination removal effectiveness? This methodology does not use “rule-of-thumb” air change rates, instead generates time and space resolved data by simulation to be used in the design of the systems.
- 3 -** As an example of energy optimization of facilities, ZETA will present opportunities provided by heat pump technology. How can heat pumps increase the overall efficiency of existing production plants while reducing CO2 footprint? This technology is already one of the standard solutions in most new investments, but the challenge is the intelligent combination and integration in existing systems.

SPEAKERS

Hans Eder - ZETA GmbH

Thomas Maischberger - ZETA GmbH

Lino Pontello - AFI

Carlo Ullio - ZETA GmbH

Eugen Naftz - ZETA GmbH

AGENDA

- Moderator:** Lino Pontello - AFI
- 09:00-09:10** **Greetings and Introduction**
Lino Pontello - AFI
- 09:10-09:20** **Holistic approach in Sustainability**
Hans Eder - Associate Business Line Director Sustainable Energy Solutions ZETA GmbH
- 09:20-09:40** **Buffer Inline Conditioning System**
Thomas Maischberger - Corporate Head of Research & Development ZETA GmbH
- 09:40-10:00** **Energy optimization of cleanrooms with the aid of CFD airflow simulation**
Carlo Ullio - Team leader Cleanroom ZETA GmbH
- 10:00-10:20** **Example of intelligent integration of heat pump technology in existing production plant**
Eugen Naftz - Business Line Director Sustainable Energy Solutions ZETA GmbH
- 10:20-11:00** **Questions and Answers**

ZETA GmbH

ZETA GmbH is a one-stop, turnkey company with extensive expertise in the design, engineering and construction of process plants and cleanrooms for the biotech and pharmaceutical industries.

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Participation is free of charge upon registration to be made by the day before the webinar.

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