

4TU.Energy Symposium

Energy Transition in Horticulture

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Date: October 31, 2024

Location: Omnia, Wageningen University

Welcome Location: Momentum 1+2+3, Omnia building
 09:00 - 09:20 Arrival of guests and coffee reception
 09:20 - 09:40 Opening speech
Prof. Eldert van Henten, leader of Energy Transition in Horticulture Consortium

Plenary Session Keynote Speech & Panel Discussion

Moderator: Prof. Eldert van Henten

09:40 - 10:10 Energy transition in greenhouse, challenges and perspectives
Dr. Silke Hemming, Head of Wageningen UR Greenhouse Horticulture

10:10 - 10:40 Net-zero energy management in building and greenhouse environments
Dr. Jan Westra, Strategic BD, Priva B.V.

10:40 - 11:00 Coffee Break

11:00 - 11:30 Energy Transition from Landscape and Policy Perspective
Dr. Dirk Oudes, Assistant Professor, Wageningen University

11:30 - 12:00 Embracing Hydrogen for a Greener Future
Dr. Canan Acar, Associate Professor, Twente University

12:00 - 12:30 Panel Discussion
 Greenhouse plus renewable energy—what chemistry can they produce?

<i>Dr. Silke Hemming</i>	<i>Dr. Jan Westra</i>	<i>Dr. Dirk Oudes</i>	<i>Dr. Canan Acar</i>
<i>Wageningen UR Greenhouse Horticulture</i>	<i>PRIVA</i>	<i>Wageningen University</i>	<i>Twente University</i>

12:30 - 13:30 Group Photo, Lunch
Location: Hall of Momentum 1+2+3

13:00 - 14:00 Poster Session
Location: Hall of Momentum 1+2+3

14:00 - 15:30 Breakroom Discussions
Moderator: Prof. Phuong Nguyen, TU/e
 Topic 1: Address the practical challenges in Energy Transition within Horticulture
Room Momentum 1+2+3, Moderator: Bart Stengs; note-taker: Shuyi Peng; Jialin He
 Topic 2: Envision the Future Post-Energy Transition in horticulture
Room Quantum 3: Moderator Kaz Vermeer; note-maker: Qingzhuo Qi; Ziye Zhu
 Topic 3: Identify your opportunities for Energy Transition within horticulture
Room Quantum 4, Moderator: Liesanne Wieleman; note-maker: Jingxi Li; Khan Wali

15:30 - 16:00 Coffee Break

16:00 - 17:00 Campus Tour to B-MEX
Address: B-Mex B.V., Bronland 10, Kantoor 1.14, 6708 WH Wageningen

17:00 - 20:00 Networking Dinner
Address: Restaurant at Omnia

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Date: November 1, 2024

Location: Bleiswijk + PRIVA

Excursion

- 08:15 Bus Departure from Wageningen
Location: In front of Radix
- 10:00 - 10:30 Visiting net-zero high-tech greenhouse facilities
Location: Wageningen UR Greenhouse Horticulture Violierenweg 1, 2665 MV, Bleiswijk
- 10:30 - 11:10 Visiting greenhouse facilities with renewable energy system
Location: Delphy, Violierenweg 3, 2665 MV, Bleiswijk
- 11:15 Bus Departure from Bleiswijk
Location: Wageningen UR Greenhouse Horticulture Violierenweg 1, 2665 MV
- 12:00 - 13:00 Lunch at PRIVA
Location: Zijlweg 3, 2678 ZG, De Lier

Stakeholder Session

Moderator: Dr. Jan Westra, Strategic BD, PRIVA
Location: Zijlweg 3, 2678 ZG, De Lier

- 13:00 - 13:30 Dr. Theo Rieswijk
Innovator Control Systems, Priva, B.V.
- 13:30 - 13:50 Mr. Kaz Vermeer
Head of Head of Commercialization, Voltiris, B.V.
Topic: Revolutionizing Greenhouse Energy with Spectral Filtering Photovoltaics-Uniting solar power and crop yield in a true synergy
- 13:50 - 14:10 Mr. Tim Koning
Projectlead innovation, Division Q
Topic: Aquifer Thermal Energy Storage System and the Smart Integration to Harvest Heat in Summer and Utilize in Winter
- 14:10 - 14:30 Coffee Break
- 14:30 - 14:50 Ms. Liesanne Wieleman
Themaspecialist Energie, Glastuinbouw Nederland
- 14:50 - 15:10 Dr. Irfan Ahmad Gondal
Researcher, National Skills University Islamabad, Pakistan
- 15:10 - 15:20 Dr. Lou Sha
Coordinator, 4TU.Energy, the Netherland

Next Step Session

Moderator: Dr. Sha Lou, Coordinator of 4TU.Energy

- 15:20 - 15:40 Introduction of Potential Collaborations and Future Plan
Dr. Congcong Sun, Assistant Professor, Wageningen University
- 15:40 - 16:10 Take home messages
Interactive sharing from all participants
- 16:10 - 16:20 Closing Remarks
Dr. Congcong Sun, Assistant Professor, Wageningen University
- 16:20 – 18:00 Farewell drinks

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Organization Team (ABE - Agricultural Biosystem Engineering)



Dr. Congcong Sun

Assistant Professor, ABE Group, WUR



Dr. Phuong Nguyen

Associate Professor, TU/e



Prof. Eldert van Henten

ABE Group, WUR

Support Team



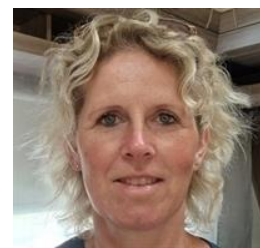
Paul Puister

ABE Group Office



Areerat Peters-Sarndang

ABE Group Office



Miranda Tap

ABE Group Office

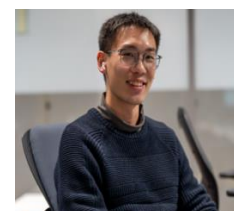
Student volunteer



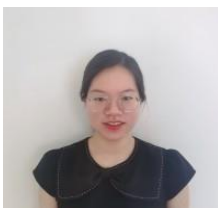
Shuyi Peng



Jialin He



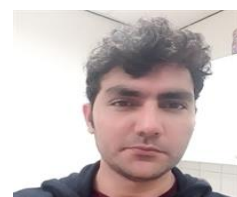
Ziyue Zhu



Jingxi Li



Qingzhuo Qi



Khan Wali