

Program Agenda:

9th International Training Workshop on Waste-to-Energy – Riyadh, Saudi Arabia

Theme:

Advancing Circular Economy through Sustainable Waste-to-Energy Technologies: In the Footsteps of Ibn Battuta, Bridging Knowledge from Hangzhou, to Saudi Arabia.

Guided by the spirit of Ibn Battuta — the great Muslim scholar and traveler who journeyed across continents and reached Hangzhou, home of Zhejiang University — the 9th International Training Workshop embarks on a modern voyage of discovery and knowledge sharing. Just as Ibn Battuta sought wisdom across cultures, we now follow in his footsteps to bring China’s world-leading expertise in Waste-to-Energy technologies to Saudi Arabia for the first time.

This workshop marks a new chapter in global cooperation: supporting Saudi Arabia’s national strategy for Waste-to-Energy and expanding opportunities for resource recovery, fostering circular economy solutions, and building bridges of innovation and Industry-Academia cooperation. From Hangzhou to Riyadh, we continue a legacy of learning and exchange that connects cultures, accelerates sustainable technologies, and inspires collaboration for a cleaner, more resilient future.

Venue: King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia

Date: November 10th-23th, 2025

Co-Organized by: Zhejiang University | KACST | WtERT | ICCWtE

Suggested Agenda:

The courses will include an open discussion and Q&A session at the end to encourage interaction and engagement.

When	Session and Description	Speaker
Day 1, November 10 Opening Ceremony at the Garage		
09:00–09:30	Registration & networking	
09:30–09:32	Welcome and Introduction	Dr. Mustafa Almadih
09:32–09:35	Chair of the opening, Executive President WtERT, Vice-Dean College of Energy Engineering, Zhejiang University	Prof. Qunxing Huang
	Welcome Speech:	
09:35–09:45	▪ Vice-President KACST	Prof. Abdullah Alkhudhiri
09:45–09:50	▪ Deputy Director, China Science and Technology Exchange Center	Mr. Xuemei Yang
09:50–09:55	▪ Head of Cooperation Division, Department of Science and Technology of Zhejiang Province	Mr. Chuanjie Liao
09:55–10:05	▪ The Saudi Investment Recycling Company (SIRC)	Mr. Sultan Saud Alsaif
10:05–10:15	▪ National Center for Waste Management (MWAN)	Ms. Adah Alfayez
10:15–10:20	▪ Contributors – SUS Environment	Mr. Liu Hanqi (Allen)
10:20–10:30	Video highlight of past workshop Group Photo Tour of KACST facilities and Laboratories	

When	Session and Description	Speaker
10:30–10:50 11:00–11:10	<u>Building 17</u> Signature ceremony (KACST–Zhejiang University)	
12:00–13:15	Lunch	
13:15–14:00	Presentation of the workshop program and requirements for participation.	Prof. Qunxing Huang Zhejiang University WtERT
14:00–14:45	Introduction of Zhejiang University and College of Energy Engineering	Prof. Wei Chen Ms. Yitong Hua Zhejiang University
14:45–15:30	Course: Research Frontiers at Zhejiang University: Innovations and Publications in Energy and Environmental Engineering	Prof. Qunxing Huang Zhejiang University WtERT
15:30–15:45	Tea break	
15:45–16:45	Course: Advance chemical recycling technologies for sustainable waste management practices	Dr. Saumitra Saxena King Abdullah University of Science & Technology
Day 2, November 11 Chair Prof. Huang		
9:00–12:00 (Tea Break)	Course: Advanced Incineration technologies & AI for smart Waste-to-Energy technologies	Prof. Qunxing Huang Zhejiang University
12:00–13:00	Lunch	
13:00–15:00 (Tea Break)	Online Course: Industrial practice – An example of regional solid waste treatment center of multiple solid waste streams	Dr. Hanwei Zhang GrandBlue
Day 3, November 12		
9:00–12:00 (Tea Break)	Course: Strategic Blueprint in Waste-to Energy in support of Kingdom of Saudi Arabia 2030 sustainability goals – Insights and Case Study from Waste-to-Energy project in Baghdad, Iraq	Mr. Liu Hanqi (Allen) Ms. Zou Xin (Vivian) SUS Environment Dr. Muna Al-Jaberi, National Investment Commission, Iraq
12:00–11:00	Lunch	
13:00–15:00 (Tea Break)	Online Course: China MSW management and the development and application of WtE	Dr Liu Xiao China Association of Urban Environmental Sanitation
Day 4, November 13		
9:00–12:00 (Tea Break)	Course: Sustainable energy from biomass	Prof. Agamutu Pariatamby Sunway University
12:00–14:00	Lunch	
13:00–14:30	Lecture: Introduction to WtERT and the Role of Academia in Tackling Global Waste Management Challenges	M. Reda Kabbaj WtERT
14:30–15:00	Tea Break	
14:00–15:30	Online Course: W2E Research at the Technical University of Munich: Enhancing plant performance and operation by digital twins	M. Christopher Schiffler Technical University of Munich

When	Session and Description	Speaker
Day 7, November 16 Chair Prof. Xiaodong Li		
9:00–12:00 (Tea Break)	Course: Singapore model with expansion towards more advanced technologies including CO ₂ capture.	Prof. Grzegorz Lisak Nanyang Technological University
12:00–13:00	Lunch	
13:00–16:00 (Tea Break)	Course: Strategic Planning and Optimization of Waste-to-X Systems	Prof. Mohamed Abdallah University of Sharjah
Day 8, November 17		
Morning	Visit headquarter of SIRC	
Afternoon	Visit AKRAM Facility, demolition waste	
Day 9, November 18		
Morning	Visit KACST's Botanical Gene-Bank	
Afternoon	Visit research agriculture farm and fishing farm	
Day 10, November 19		
9:00–12:00 (Tea Break)	Course: Fundamental theory of municipal solid waste combustion	Prof. Xiaodong Li Zhejiang University
12:00–13:00	Lunch	
13:00–14:00	Course: Integrated Waste-to-Energy and Recovery Solutions: From Municipal Solid Waste Incineration to End-of-Life Tires Pyrolysis and Hazardous Waste Treatment	Mr Lucas Chen Zhejiang Best Energy & Environment –Zhejiang University
14:00–15:30	Tea Break	
15:30–17:00	Online Course: Waste-to-Energy in USA and the Climate Policy Landscape	Mr Michael Van Brunt Reworld
Day 11, November 20 Chair Prof. Mi Yan		
9:30–12:00	Course: Dioxins Emission and Control during MSW incineration	Prof. Tong Chen Zhejiang University
12:00–14:30	Lunch	
14:45–15:45	Online Lecture: An overview of Waste-to-Energy in Europe.	Mr Fabio Poretti CEWEP
Day 14, November 23 (Last day)		
8:30–10:30 (Tea Break)	Course: Pollution Emission Control Technology in WtE Plants	Prof. Mi Yan Zhejiang University of Technology
10:30–12:00	Course: Planning, Commissioning and Operation management of Waste-to-Energy facility in China. Introduce the WtE plant in various stages from planning, investment, construction and operation.	Prof. Xianxiang Bai Shenzhen Energy Group
12:00–12:30	Closing Ceremony with Certificate Awards for All Participants	